

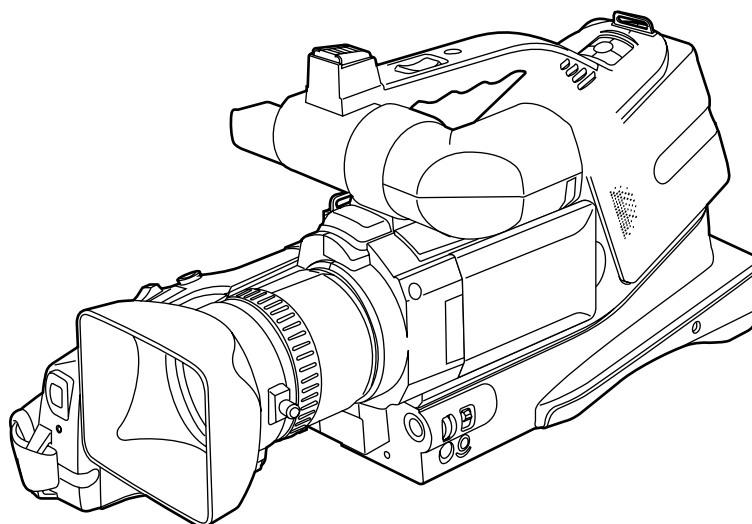
Service Manual

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Mini DV

Camera/VTR

AG-DVC15P



Specifications

General

Power Source:	DC 7.2/7.8 V
Power Consumption:	Recording 9.2 W (When using Finder) 10.8 W (When using LCD Monitor)

Recording format:	Digital video SD format
Tape format:	Mini-DV
Recording signals:	525i (NTSC)
Recording audio signals:	16 bits, 48 kHz for 2 channels; 12 bits, 32 kHz for 4 channels
Recording tracks:	Helical tracks for digital video and audio: Helical track Time code: Helical track (sub-code area)
Tape speed:	18.812 mm/sec (SP mode), 12.555 mm/sec (LP mode)
Recording time:	60 minutes (in SP mode using AY-DVM60) 90 minutes (in LP mode using AY-DVM60)
Tape used:	6.35 mm wide ME tapes (Mini-DV cassette tapes)
FF/REW time:	Less than 80 sec. (using AY-DVM60)
Operating Temperature:	0°C–40°C
Operating Humidity:	10%–80% (no condensation)
Dimensions:	8- ⁵ / ₁₆ " (W) × 8- ⁷ / ₈ " (H) × 17" (D) 211 × 224 × 431 mm
Weight:	5.06 lbs (2.3 kg) (without battery) 5.5 lbs (2.5 kg) (with battery, shoulder strap and cassette)

Video (Analog composite OUT)

Sampling frequency:	13.5 MHz for Y, 3.375 MHz for P _B /P _R
Quantizing:	8 bits
Video compression system:	DCT + variable-length code
Error correction:	Reed-Solomon product code

Audio (Digital audio)

Sampling frequency:	48 kHz/32 kHz
Quantizing:	16 bits/12 bits
Video output signals	
Monitor output:	Phono × 1, 1.0 Vp-p, 75 ohms
S-VIDEO output:	S-VIDEO × 1, 75 ohms, Y: 1.0 Vp-p, C: 0.286 Vp-p

Audio input/output signals

MIC input:	3.5 mm, stereo-mini jack (–70 dBV, high impedance)
XLR input (CH1/CH2):	High impedance, 0/–60 dBu (LINE/MIC selectable)
Built-in microphone:	Stereo
Audio output:	Phono × 2 (CH1/CH2), –10 dBV, low impedance
Headphone output:	3.5 mm, stereo-mini jack

Other input/output signals

Digital interface:	4 pins (DV I/O connector, compliant with IEEE 1394, 4P)
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Camera unit

Pickup device:	1/4-inch, 510H × 3 CCD (pixel offset system)
Number of pixels:	270,000
Sensitivity:	1,400 lux
Minimum brightness:	5 lux (in digital increased gain mode)
Sampling frequency:	13.5 MHz/27 MHz
Shutter speed:	1/60 to 1/8000 (14 steps)
Gain switching:	0, 3, 6, 9, 12 dB
Color separation optical system:	Prism system
Lens:	Automatic iris, 12X motorized zoom lens, F1.6, f=4 to 48 mm Filter diameter; 43 mm

AC Adapter

Power Source:	110/120/220/240 V AC, 50/60 Hz
Power Consumption:	18 W

Dimensions:	2- ¹³ / ₁₆ " (W) × 1- ¹³ / ₁₆ " (H) × 4- ⁵ / ₈ " (D) 70 × 44.5 × 116 mm
Weight:	Approx. 0.352 lbs. (160 g)

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than $5M\Omega$.

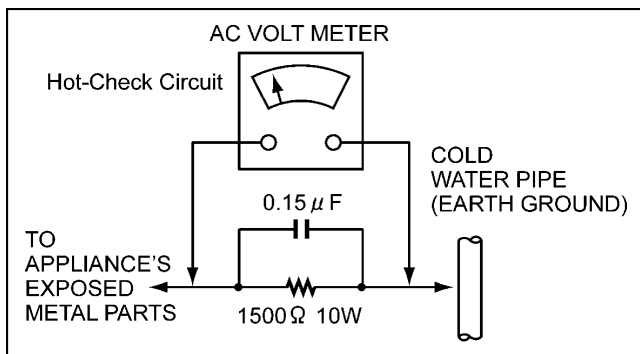


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10W resistor, in parallel with a $0.15\mu F$ capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed. CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note : It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate $2.5kV, \pm 0.15kV$. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (service) instructions in the literature accompanying the appliance.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or in another confined space in order to keep well ventilated condition. Ensure that curtains and any other materials do not obstruct the ventilation condition to prevent risk of electric shock or fire hazard due to overheating.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

FCC Note:

This device complies with Part 15 of the FCC Rules. To assure continued compliance follow the attached installation instructions and do not make any unauthorized modifications.

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Replace battery with part No. CR2025/1B only.
Use of another battery may present a risk of fire or explosion.
Caution—Battery may explode if mistreated.
Do not recharge, disassemble or dispose of in fire.

Panasonic[®]

SECTION 1

SERVICE INFORMATION

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SERVICE INFORMATION

1. EXTENDER CABLES

Use the extender cable as shown in the table below for checking and servicing the unit.

Part No.	Extender Cable	Quantity	Connection Between	No.
VFK1389	26Pin Extender Cable	1	Lens Unit/Camera Sub PP101	1
VFK1311	80Pin Extender Cable	1	Camera Main PP301/Mother P1012	2-1
VFK1311	80Pin Extender Cable	1	Power PP1001/VTR Main PS1001	2-2
VFK1311	80Pin Extender Cable	1	VTR Main PS3002/Mother P1013	2-3
VFK1387	30Pin Extender Cable	1	Camera Main PP302/Mother P1010	3-1
VFK1387	30Pin Extender Cable	1	VTR Main PS3001/Mother P1011	3-2
VFK1388	12Pin Extender Cable	1	Camera Main FP305/Mother P1001	4
VFK1367	50Pin Extender Cable	1	VTR Main FP2001/Drive PP2001	5
VFK1176	13Pin Extender Cable	1	Front FP4801/Mother P1015	6-1
VFK1176	13Pin Extender Cable	1	VTR Main FP4001/Mother P1014	6-2
VFK1286	16Pin Extender Cable	1	Operation FF6701/Mother P1005	7-1
VFK1286	16Pin Extender Cable	1	VTR Main FP6002/Mother P1006	7-2
VFK1286	16Pin Extender Cable	1	Power Sub P1702/Mother P1502	7-3
VFK1286	16Pin Extender Cable	1	Jack P4802/Mother P1505	7-4
VFK1173	14Pin Extender Cable	1	Power FP1001/Mother	8-1
VFK1173	14Pin Extender Cable	1	VTR Main FP6001/Mother P1004	8-2
VFK1282	22Pin Extender Cable	1	Lens Unit/Camera Main FP701	9
VFK1284	24Pin Extender Cable	1	HR Amp/VTR Main FP3201	10
VFK1365	70Pin Extender Cable	1	VTR Main PP3002/Mother P1018	11
VFK0913	18Pin Extender Cable	1	EVF INT P9001/Mother P1021	13

The numbers (No.) shown in the above table are related with the cable reference number in figure S2 and S3.

Fig.S1

2. CONNECTION OF EXTENDER CABLES

1. To be careful for unplugging or plugging connectors.
2. Use a grounded ESD wrist strap while disassembling the camera portion.

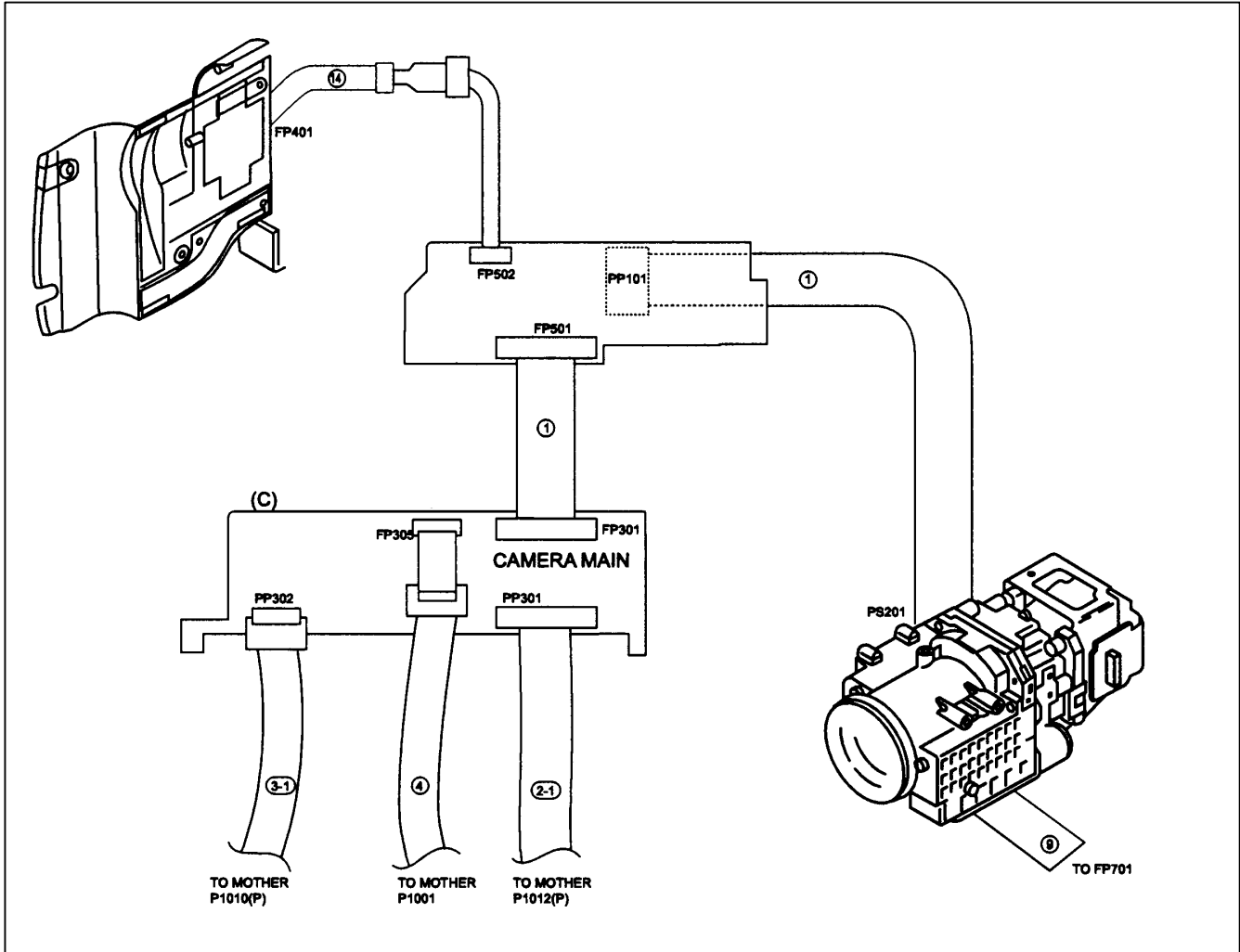


Fig.S2

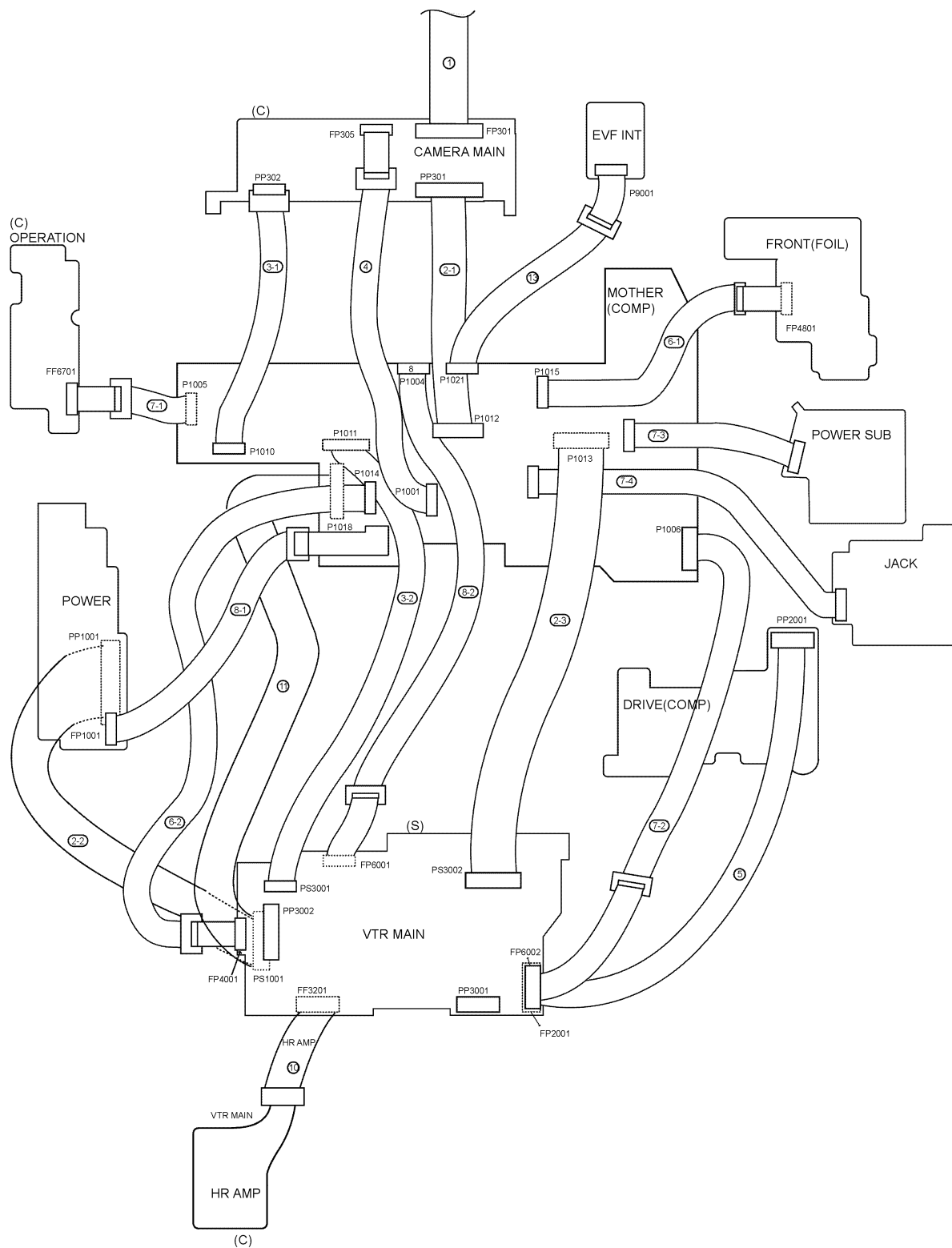


Fig.S3

3. SERVICE MODE

When some problem occurred, the error code is displayed on the EVF.

At the same time the camera LED is flashed according to the error code table as shown below.

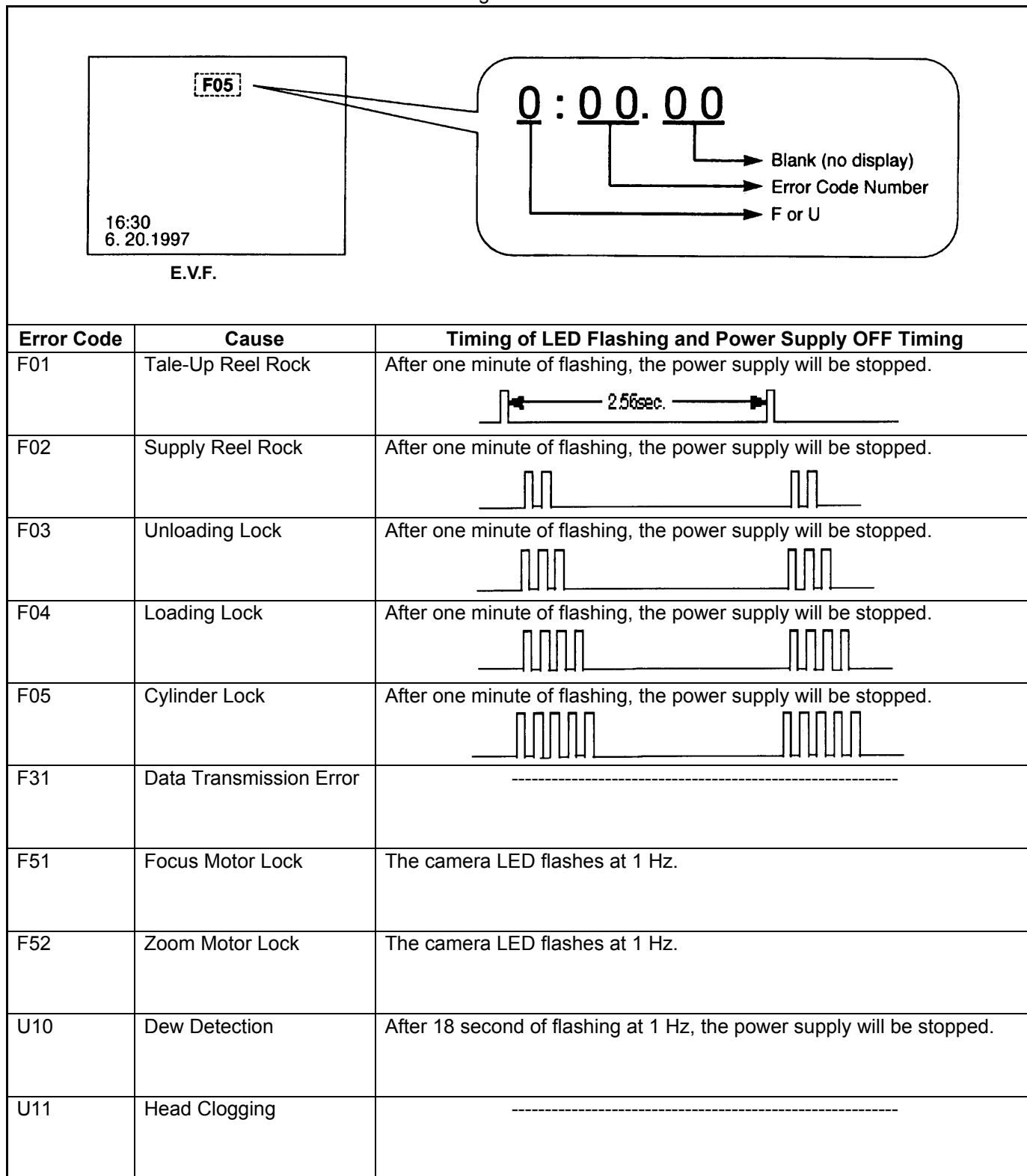


Fig.S4

Note: Error Code (F01 thorough F05 and U10) will be displayed again with power switch OFF and ON while the battery remains (Once the battery is removed or discharged, the error code is vanished.)

4. SERVICING FIXTURES AND TOOLS

The following servicing tools is required for mechanical, electrical adjustments and servicing.

4-1. Video and Camera Adjustment Tools

VFM3010EDS Alignment Tape (Color Bar)	VFK1217 Tape End/Beg.Sensor. Cassette	VFK1308P Measuring Board	VFK1309 EVR Connector Board
VFK1661A EVR Adjustment Software	----- Ordinary 9pin RS-232C Cross Cable	VFK1317 30pin Flat Cable (Adjustment system needs 2pcs. of this cable)	VJA0941 DC Cable
VFK1164TAR43 43mm Attachment Ring	VFK1164TCM01 Collimator Set (with Focus Chart)	VFK1409S Measuring Board	VFK1345 CC Filter Holder VFK1346 CC Filter Holder Step Down Ring
VFK1341 (LB40) VFK1343 (LA40) VFK1347 (LB120) CC Filter	VFK1481B LISTA SOFTWARE	VFK1659 Step-up Ring (43mm→49mm) VFK1660 Step-up Ring (49mm→62mm)	VFK1694 EVR Extender board

Fig.S5

4-2. Mechanical Adjustment Tools

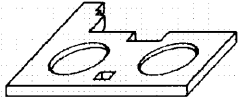
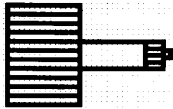

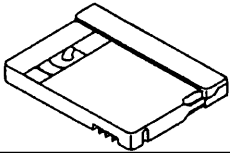
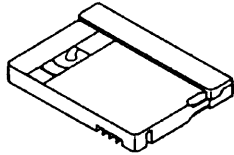
VFK1233 Mech. Neutral Plate 	VFK1266 Gear Driver 	VFK1149 Post Driver 	VFM3010EDS Alignment Tape (Color Bar) 
VFM3000EDS Alignment Tape (Linearity) 			

Fig.S6

4-3. Extender Cables









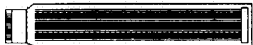

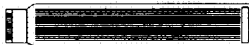



VFK1365 70pin Extender Cable 	VFK1367 50pin Extender Cable 	VFK1284 24pin Extender Cable 	VFK1311 80pin Extender Cable 
VFK1389 26pin Extender Cable 	VFK1387 30pin Flat Cable 	VFK1286 16pin Extender Cable 	VFK1282 22pin Extender Cable 
VFK0913 18pin Extender Cable 	VFK1175 16pin Extender Cable 	VFK1176 13pin Extender Cable 	VFK1173 14pin Extender Cable 
VFK1388 12pin Extender Cable 	VFK1428 8pin Extender Cable 		

Fig.S7

4-4. Summary Table of Special Fixtures and Tools

Parts No.	JIG & EQUIPMENT	AG-EZ1	AG-EZ20	AG-EZ30	AG-DVC10	AG-DVC15	PURPOSE
VFK1173	14pin Extender Cable	Y	N	Y	Y	Y	Circuit Board Extension
VFK1175	16pin Extender Cable	Y	N	Y	Y	Y	Circuit Board Extension
VFK1176	13pin Extender Cable	Y	N	Y	Y	Y	Circuit Board Extension
VFK1149	Post Driver	Y	Y	Y	Y	Y	Tape Post Height Adjustment
VFM3000EDS	Alignment Tape	Y	Y	Y	Y	Y	Tape Interchangeability Adjustment
VFM3010EDS	Alignment Tape	Y	Y	Y	Y	Y	Electrical Adjustment
VFK1266	Gear Driver	Y	Y	Y	Y	Y	Mechanical Maintenance
VFK1233	Mech. Neutral Plate	Y	Y	Y	Y	Y	Mechanical Maintenance
VFK1164TCM01	Collimator Set (Infinity Lens)	Y	Y	Y	N	N	Camera Adjustment
VFK1164TFGS1	Gray Scale Chart	Y	N	Y	N	N	Camera Adjustment
VFK1164TFWC1	White Chart	Y	Y	Y	N	N	Camera Adjustment
VFK1164TCB1	Color Chart	Y	Y	Y	N	N	Camera Adjustment
VFK1217	Tape End/Beg Detect Cassette	Y	Y	Y	Y	Y	Sensor Sensitivity Adjustment
VFK1279	Capstan Adj. Fixture	Y	Y	Y	N	N	Capstan Slant Adjustment
VFK1164TAR3A	30.5mm Attachment Ring	N	Y	N	N	N	Camera Adjustment
VFK1308P	Measuring Board	N	Y	Y	Y	Y	Test point Board and PC I/F
VFK1309	EVR Connector Board	N	Y	Y	Y	Y	Connection for PC Adjustment
VFK0374	C12 Color Conversion Filter	Y	Y	Y	N	N	Camera Adjustment
VFK0375	C2 Color Conversion Filter	Y	Y	Y	N	N	Camera Adjustment
VFK0547	C8 Color Conversion Filter	Y	Y	Y	N	N	Camera Adjustment
VFK1389	EVR Adjustment Software	N	Y	N	N	N	PC Electrical Adjustment System
VFK0929	12pin Extender Cable	N	Y	N	N	N	Circuit Board Extension
VFK0977	20pin Extender Cable	N	Y	N	N	N	Circuit Board Extension
VFK1364	14pin Extender Cable	N	Y	N	N	N	Circuit Board Extension
VFK1365	70pin Extender Cable	N	Y	Y	Y	Y	Circuit Board Extension
VFK1311	80pin Extender Cable	N	Y	Y	Y	Y	Circuit Board Extension
VFK1367	50pin Extender Cable	N	Y	Y	Y	Y	Circuit Board Extension
VFK1284	24pin Extender Cable	N	Y	Y	Y	Y	Circuit Board Extension
VFK1317	30pin Flat Cable	N	Y	Y	Y	Y	Between Meas. & Con. Boards
VJA0941	DC Cable	N	Y	Y	Y	Y	Power Supply for Measuring Board
VJA0973	Multi Cable	Y	Y	Y	N	N	A/V Monitoring and WFM Measure
VFK1164TAR43	43.0mm Attachment Ring	N	N	Y	Y	Y	Camera Adjustment
VFK1388	12pin Extender Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK1389	26pin Extender Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK1387	30pin Flat Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK1286	16pin Extender Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK1282	22pin Extender Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK1398	EVR Adjustment Software	N	N	Y	N	N	PC Electrical Adjustment System
VFK0913	18pin Extender Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK0913	8pin Extender Cable	N	N	Y	Y	Y	Circuit Board Extension
VFK1659	Step-Up Ring (43mm-49mm)	N	N	N	Y	Y	Camera Adjustment
VFK1660	Step-Up Ring (49mm-62mm)	N	N	N	Y	Y	Camera Adjustment
VFK1661A	EVR Adjustment Software	N	N	N	Y	Y	PC Electrical Adjustment System
VFK1341	CC Filter (LB40)	N	N	N	Y	Y	Camera Adjustment
VFK1342	CC Filter (LB80)	N	N	N	Y	Y	Camera Adjustment
VFK1347	CC Filter (LB120)	N	N	N	Y	Y	Camera Adjustment
YWV2100RB98	Color Chip Chart	N	N	N	Y	Y	Camera Adjustment
VFK1345	CC Filter Holder	N	N	N	Y	Y	Camera Adjustment
VFK1346	CC Filter Holder Step Down Ring	N	N	N	Y	Y	Camera Adjustment
VFK1481B	LISTA Software	N	N	N	Y	Y	Mechanical Maintenance
VFK1694	EVR Extension Board	N	N	N	N	Y	PC Electrical Adjustment System

5. LITHIUM BATTERY

5-1. Replacement Procedure

1. Remove the Rear Operation C.B.A.. (Refer to item 3-4-5 & 3-4-6 of the Disassembly Procedures).
2. Unsolder the Lithium battery "VL2020/1HF" and then replace with the new one. (See Figure S11).

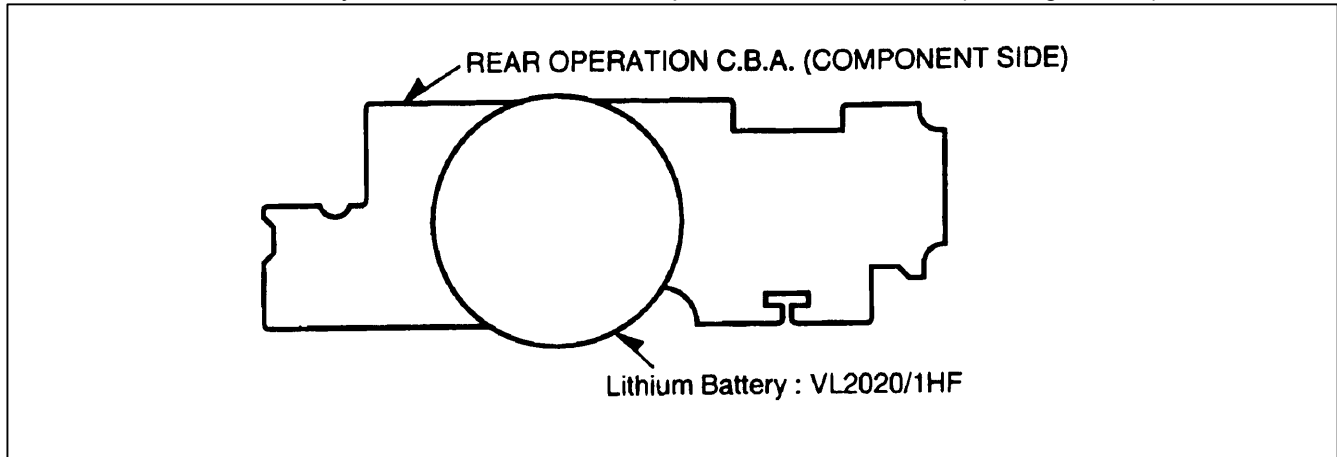


Fig.S9

NOTE:

The lithium battery is a critical component (Type No. : VL2020/1HF Manufactured by Panasonic).

It must never be subjected to excessive heat or discharge.

It must therefore only be fitted in equipment designed specifically for its use.

Replacement batteries must be of the same type and manufacture.

They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.

Do not attempt to re-charge the old battery or re-use it for any other purpose.

It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the equipment manufacturer.

Discard used batteries according to manufacture's instructions.

SECTION 2

DISASSEMBLY PROCEDURES

CONTENTS

1. Removal of the Ear Pad.....	DIS-1
2. Removal of the Shoulder Pad	DIS-1
3. Removal of the Left Side Cover	DIS-1
4. Removal of the Lens Hood.....	DIS-1
5. Removal of the Grip Cover Unit.....	DIS-2
6. Removal of the Operation C.B.A.....	DIS-2
7. Removal of the ND Filter Unit	DIS-2
8. Removal of the Focus Ring	DIS-3
9. Removal of the Front Unit.....	DIS-3
10. Removal of the Front Case	DIS-3
11. Removal of the Mother C.B.A.	DIS-3
12. Removal of the VTR Main C.B.A.	DIS-4
13. Removal of the Mechanical Unit	DIS-4
14. Removal of the EVF.....	DIS-4
15. Removal of the LCD Unit.....	DIS-5

DISASSEMBLY PROCEDURE

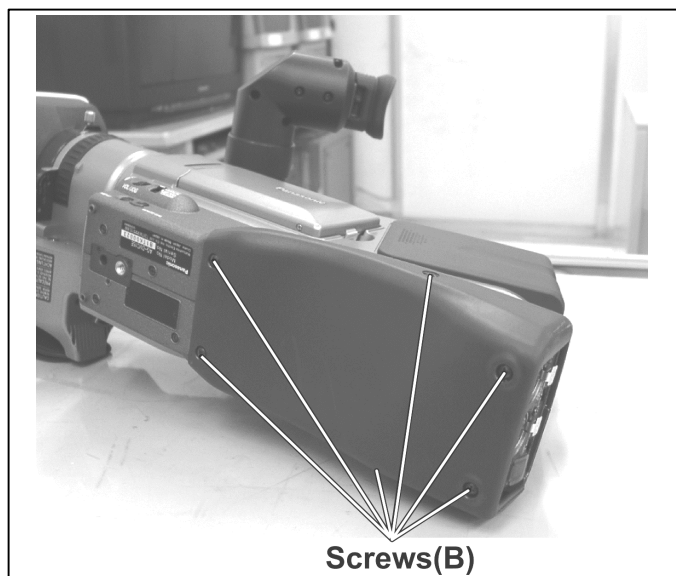
1. Removal of the Face Panel

1. Unscrew the 2 screws (A) and remove the Face Panel.

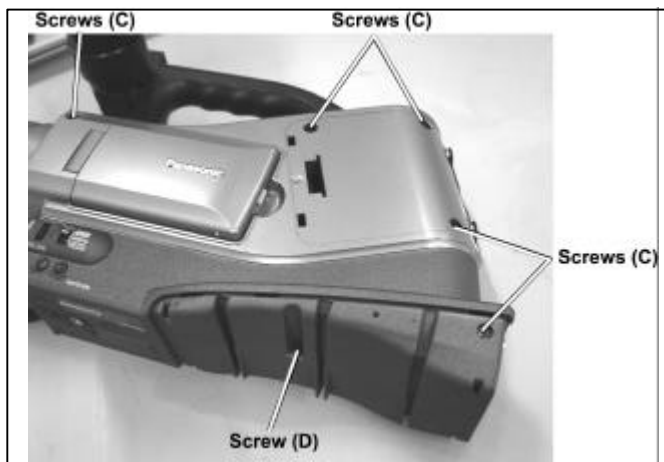


2. Removal of the Shoulder Pad

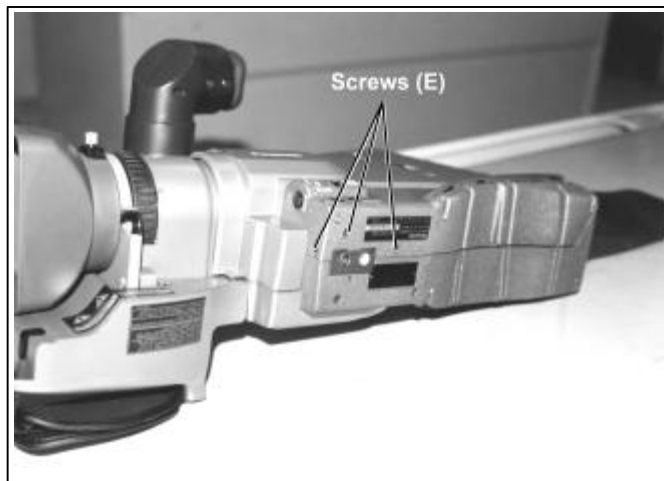
1. Unscrew the 6 screws (B) and remove the Shoulder Pad



3. Removal of the Right Side Cover



1. Unscrew the 5 screws (C).
2. Unscrew a screw (D).



3. Unscrew the 3 screws (E) and open the Right Side Cover carefully.

Note : Be careful not to damage the wires.

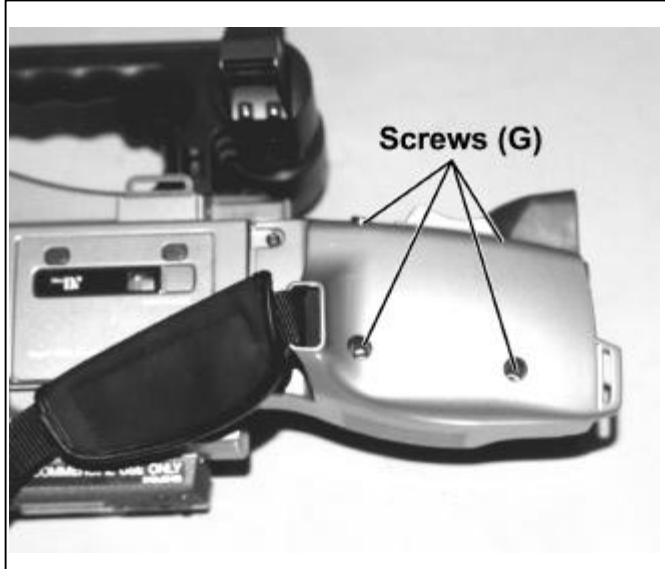
4. Disconnect the connector (P2001, P2005), and remove the Left Side Cover.

4. Removal of the Hood Cap

1. Unscrew the screws and remove Hood Cap.

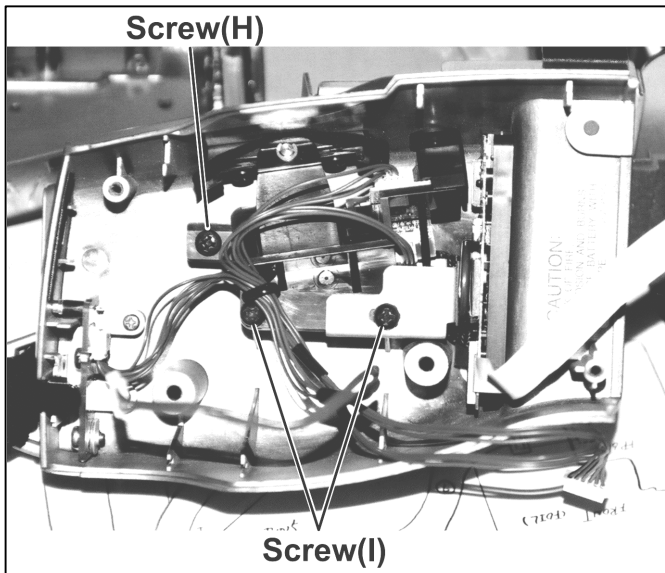
5. Removal of the Grip Cover Unit

1. Unlock the Grip Belt, unscrew 4 screws (G) and open Grip Cover Unit.
2. Remove the Shield Plate and disconnect the connector (P1005, P1007, P1023) then remove Grip Cover Unit.

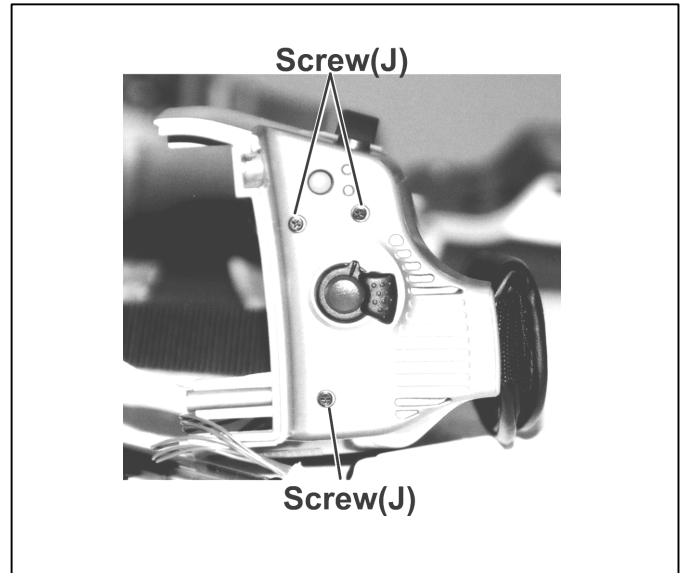


6. Removal of the Operation C.B.A.

(For the battery replacement)



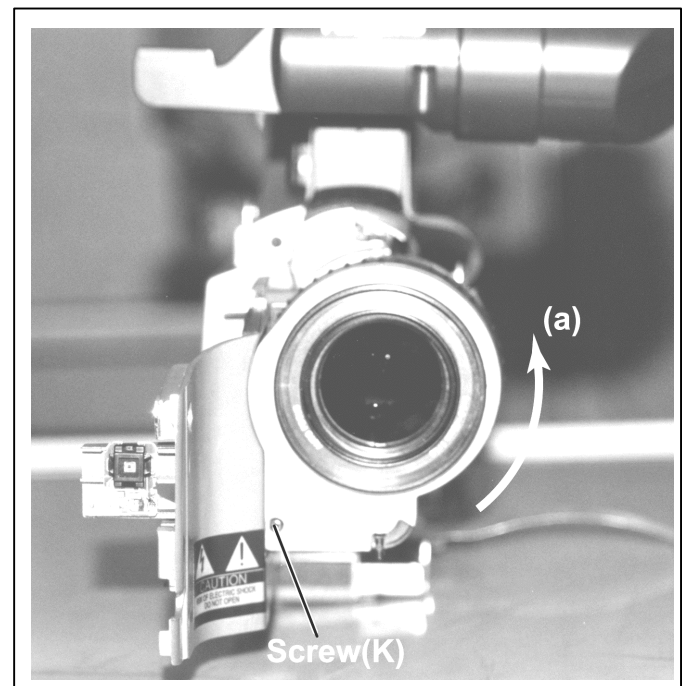
1. Unscrew a screw (H) and 2 screws (I).



2. Unscrew 3 screw (J) and remove the Operation C.B.A.
- Caution : Refer to service information for the backup battery replacement procedure.

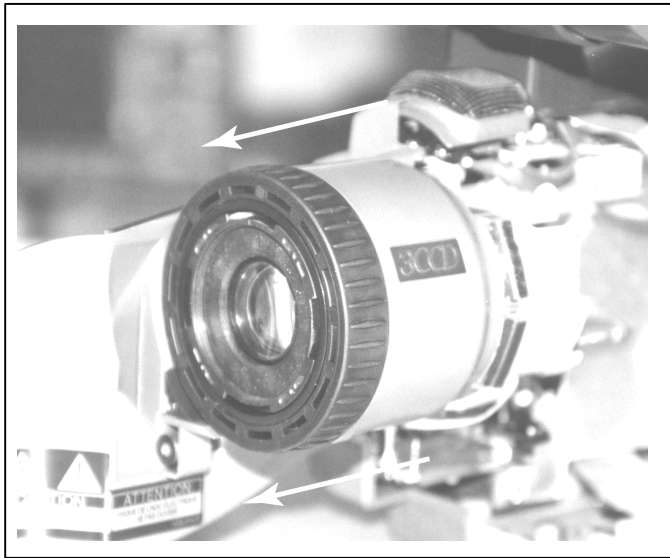
7. Removal of the ND Filter Unit

1. Unscrew a screw (K) and turned (a) counterclockwise then remove the ND Filter Unit.



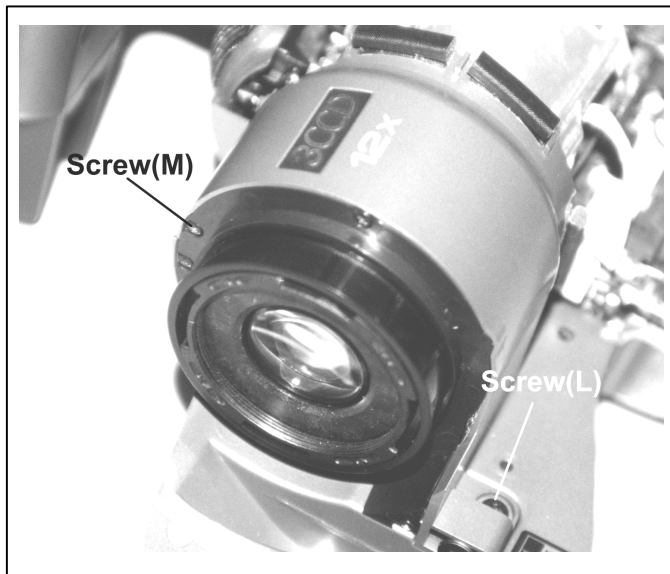
8. Removal of the Focus Ring

1. Pull out the Focus Ring as arrow shows.



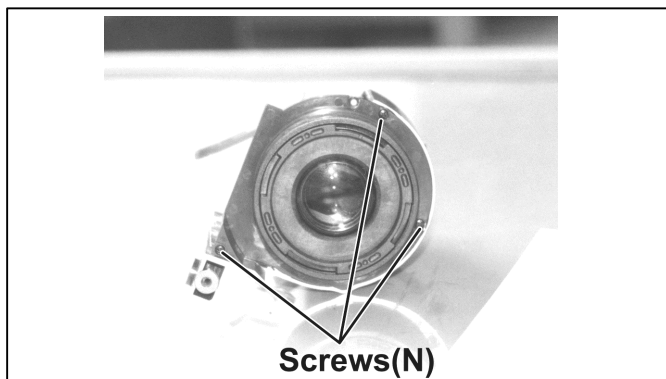
9. Removal of the Front Unit

1. Unscrew a screw (L) and a screw (M).
2. Disconnect the connector (P2501) on the AWT C.B.A.
3. Disconnect the connector (P1016) on the Mother C.B.A. and pull out the Front Unit.



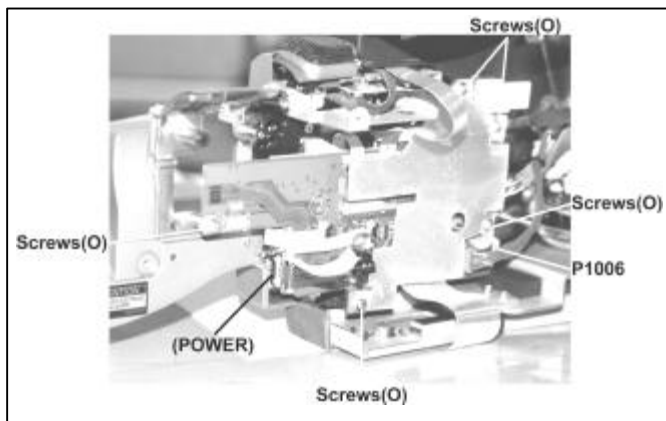
10. Removal of the Lens Case

1. Unscrew the 3 screws (N) and remove the Lens Case.



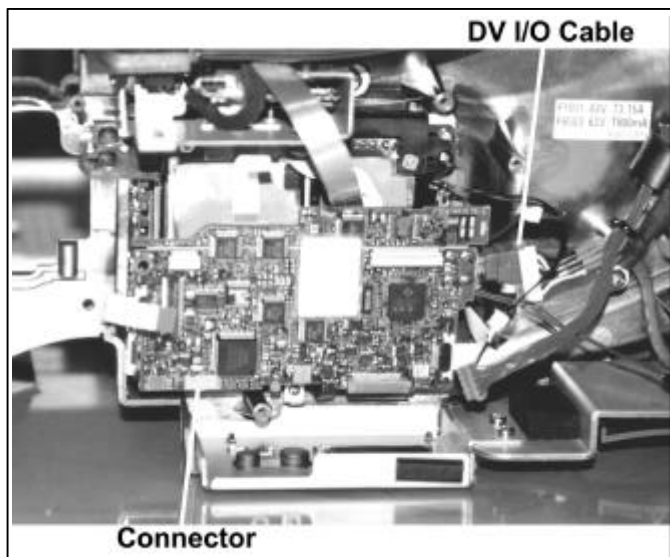
11. Removal of the Mother C.B.A.

1. Unscrew the 5 screws (O) and remove Shield Cover.
2. Disconnect the 8 connectors (P1004, P1006, P1008, P1009, P1014, P1015, P1021 and Connector of Mother C.B.A).
3. Lift up and remove Mother C.B.A from the VTR Main C.B.A.

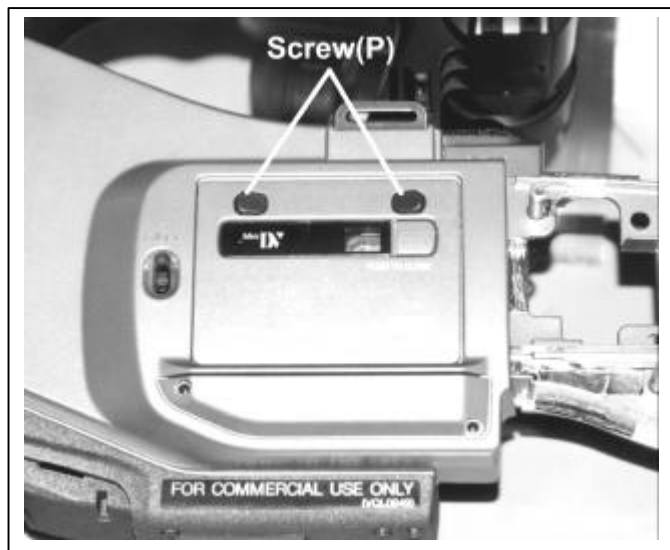


12. Removal of the VTR Main C.B.A.

1. Disconnect the DV I/O Cable and lift up the VTR Main C.B.A. vertically.
2. Disconnect the connector and remove the VTR Main C.B.A.

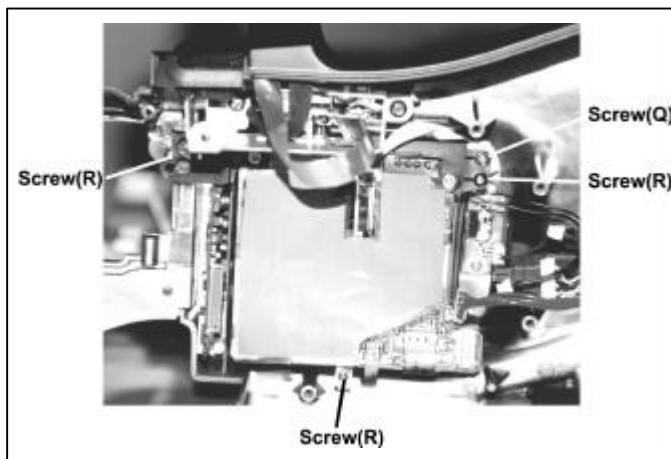


13. Removal of the Mechanical Unit



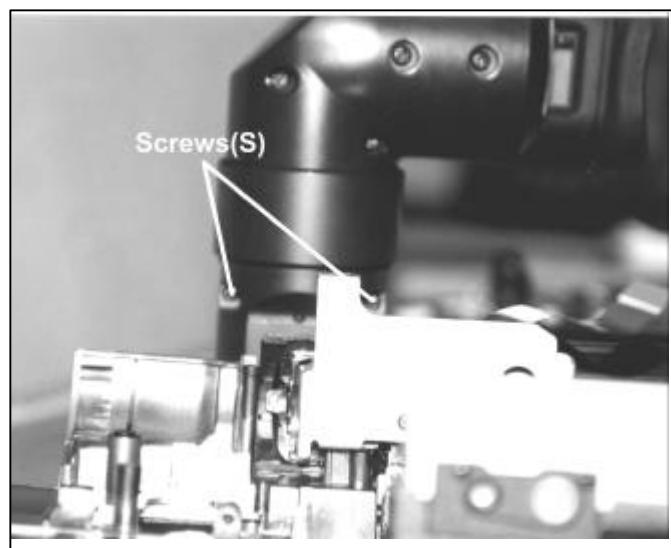
1. Take off the Blind Cover and unscrew the 2 screws (P), then remove the Cassette Cover.

2. Unscrew a screw (Q), and 3 screws (R) and then remove the Mechanical Unit.

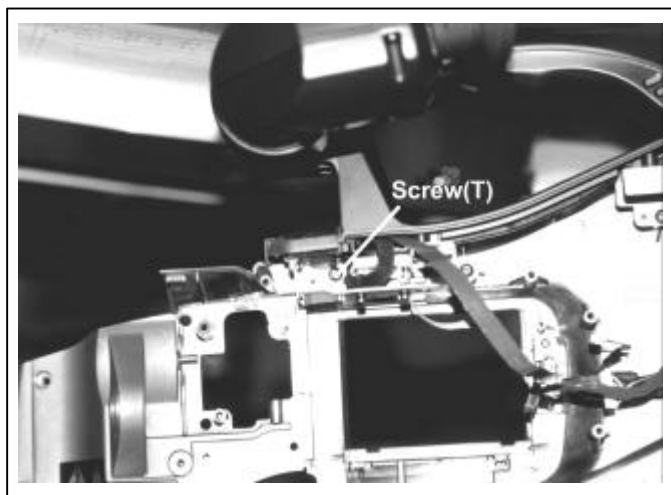


14. Removal of the EVF

1. Unscrew the 2 screws (S).

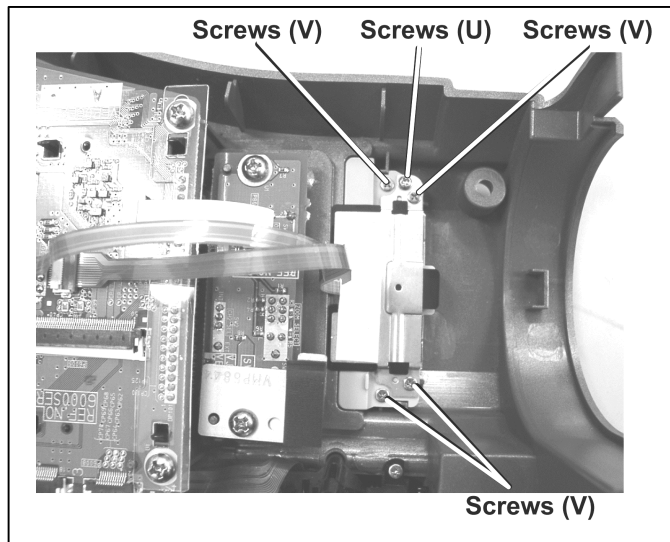


2. Unscrew the screw (T) and remove the EVF.



15. Removal of the LCD Unit

1. Unscrew a screw (U) and 4 screws (V) and then remove the LCD Unit.



Note : Assemble procedures are reverse of the disassembly procedures.

SECTION 3

MECHANICAL ADJUSTMENTS

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1.MECHANICAL MAINTENANCE

1-1. Mechanical Parts Location

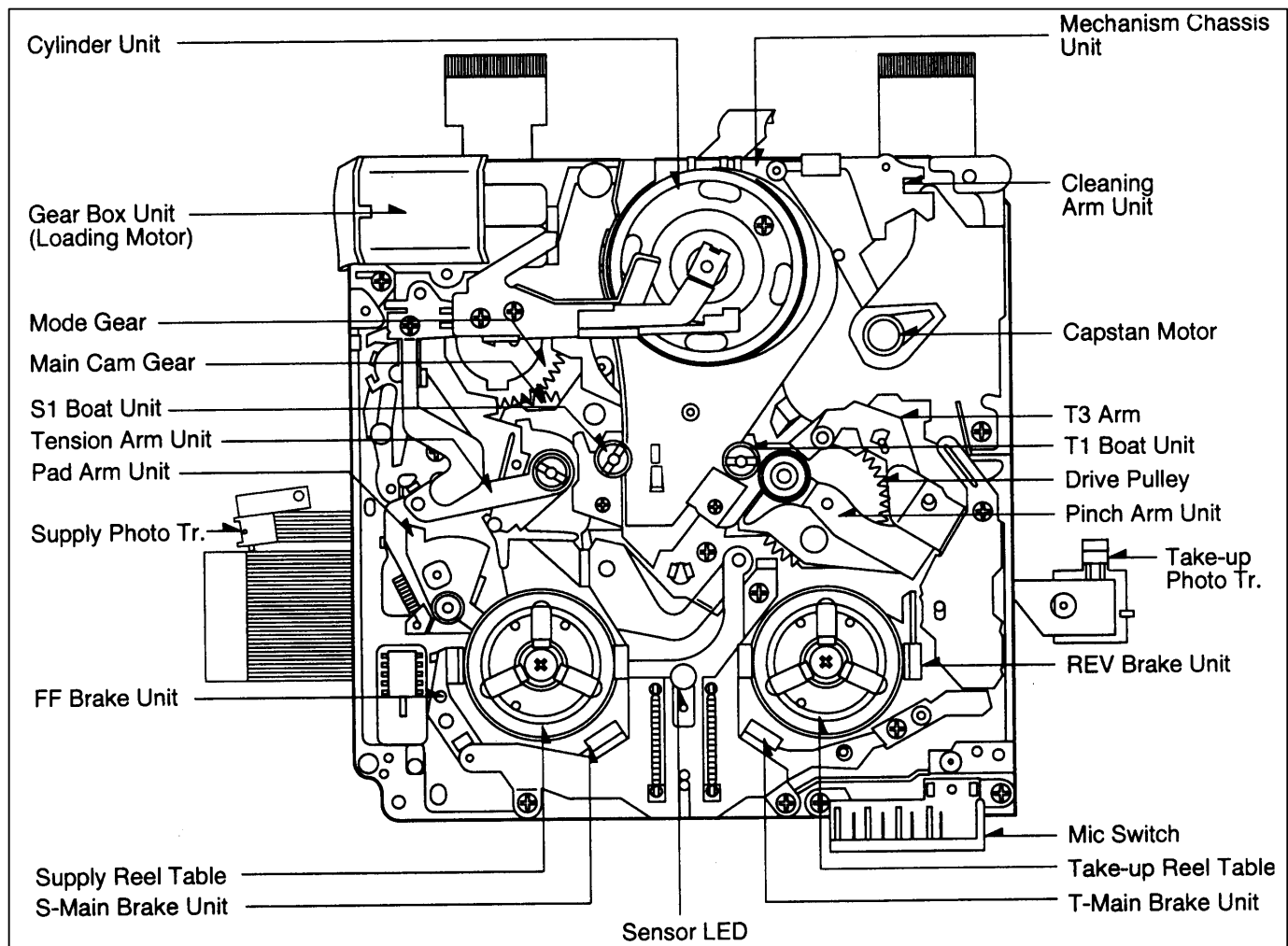


Figure M1

1-2. Regular Maintenance

The purpose of periodic maintenance is to preserve the functioning throughout its useful life.

The user or service dealer should perform these maintenance regularly to ensure that maximum utility is obtained from the machine.

The VCR is complicated place of equipment. It contains many belts, rollers, heads etc., which become worn, and deteriorate as time goes by, causing trouble. Dust and dirt will also impede the proper functioning of the machine. In light of this, it is very important that overall maintenance be done according to the maintenance chart to maintain the functions of the VCR, and to avoid

accidental problems. This maintenance should also be performed after any repairs are done on the equipment. The VCR used for business applications requires particular attention for several reasons. The installation conditions and applications are not always the best. Long use times, or poor environmental conditions may adversely affect the life span and performance of the machine. Regular maintenance assures that the purchaser obtains the maximum value for his expenditure. Accordingly, the necessity of regular maintenance should be fully explained at the time of sale, as well as during after-sale repairs.

1-2-1. MAINTENANCE CHART

The following periodic maintenance is required to maintain AG-DVC15E in good condition.

No.	Part Name	Part No.	Cleaning	Replacement	Remark
	Tape Transport Part	-----	100 hours	-----	*1
1	Cylinder Unit	VEG1573	100 hours	Every 1000 hours	
2	Pinch Arm Unit	VXL2464	-----	Every 1000 hours	
3	Cleaning Arm Unit	VXL2468	-----	Every 1000 hours	
4	Gear Box	VXA5417	-----	Every 1000 hours	
5	REV Brake Unit	VXZ0323	-----	Every 1000 hours	
6	FF Brake Unit	VXZ0322	-----	Every 1000 hours	
7	S-Main Brake Unit	VXZ0321	-----	Every 1000 hours	
8	T-Main Brake Unit	VXZ0319	-----	Every 1000 hours	
9	Supply Reel Table	VXR0355	-----	Every 1000 hours	
10	Take-up Reel Table	VXR0356	-----	Every 1000 hours	
11	Made Cam SW Unit	VSR0114	-----	Every 1000 hours	
12	Main Cam Gear	VXA5407	-----	Every 1000 hours	
13	S1 Boat Unit	VXA5409	-----	Every 1000 hours	
14	T1 Boat Unit	VXA5410	-----	Every 1000 hours	
15	Tension Arm Unit	VXL2456	-----	Every 1000 hours	
16	Pad Arm Unit	VXL2458	-----	Every 1000 hours	
17	Mechanism Chassis Unit	VXY1598	-----	Every 3000 hours	*2

Figure M2

Note;

Using hours are based on the head rotation hours.(No hour meter in this Camera Recorder.)

Using hours are recommendation. It may depend on temperature, humidity, quality of tape or dust condition.

Using hours are listed as the reference of maintenance. They do not mean guarantee hours.

*1 Tape transport parts mean following parts.

(Tension Post, S3 Post, S2 Post, S1Roller, Cylinder & Heads,T1 Roller, T2 Post, Capstan Shaft, Pinch Roller and T3 Post)

*2 Parts listed No.1 thorough 16 are included in Mechanism Chassis Unit. Replacing the Mechanism Chassis Unit is recommended every 3000 hours.

1-3. Disassembly/Assembly Procedures of Mechanism

1-3-1. Disassembly Flowchart

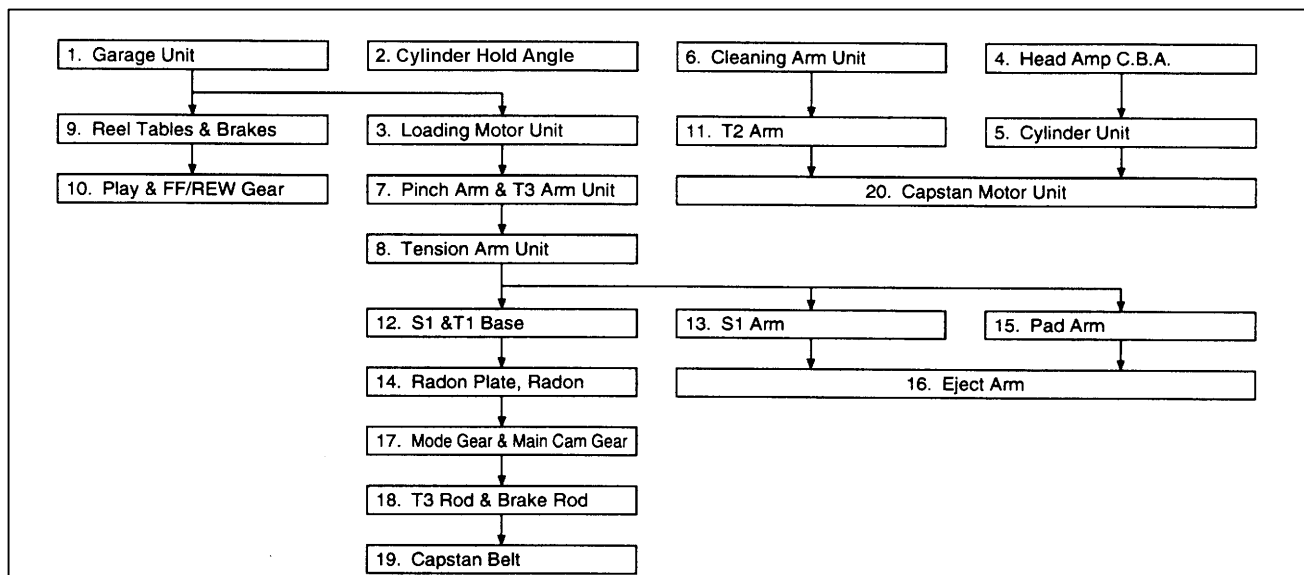


Figure M3

1-3-2. Manual Loading / Unloading

For the mechanism maintenance, loading and unloading operation can be manually performed.

In order to perform manual loading and unloading easily, use Gear Driver (VFK1266) as shown in Figure M4.

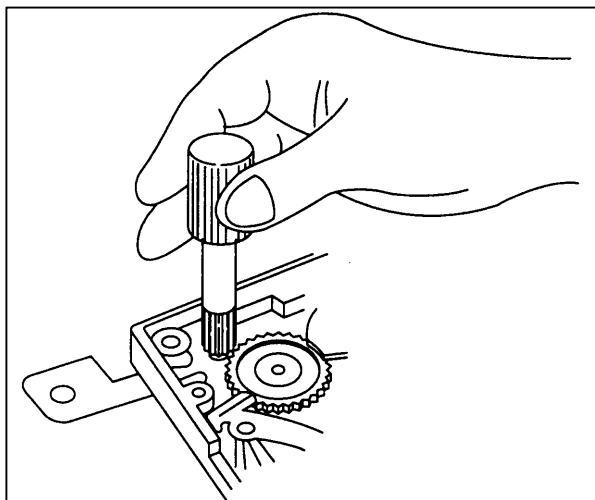


Figure M4

Rotate the Gear Driver clockwise or counterclockwise so that the Mode Cam Gear rotates opposite direction of the Gear Driver rotation, and then loading and unloading are performed

1-3-3. Disassembly Procedures

1-3-3-1. Garage Unit

1. Slide the Lock Lever with tweezers to eject the Garage.

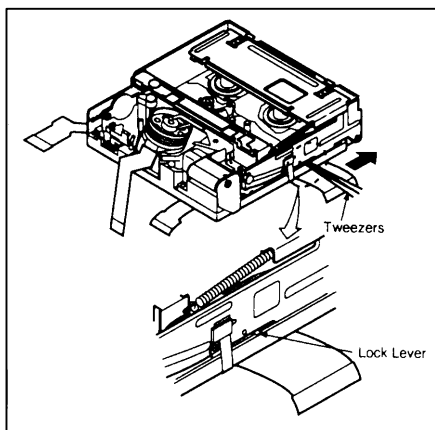


Figure M5

(Manual Eject)

Unscrew 2 screws (A) and remove Supply and Take-up Photo Transistors from Garage Unit. Unscrew 4 screws (B) and remove the Garage Unit.

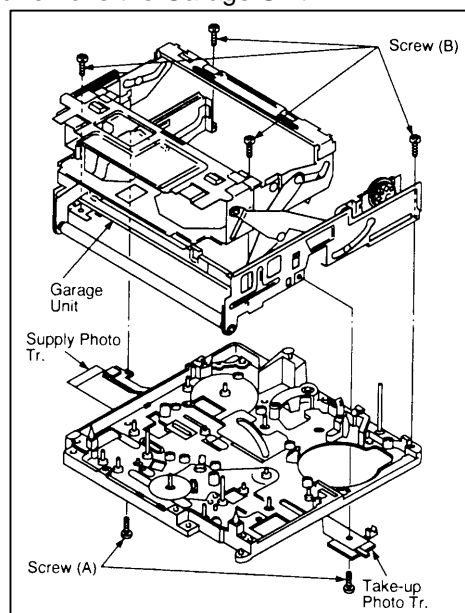


Figure M6

1-3-3-2. Cylinder Hold Angle

1. Unscrew 2 screws (C) and remove the Earth Brush.

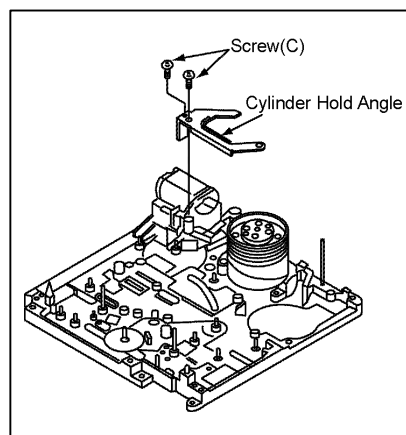


Figure M7

(Note of installation)

Install the Cylinder Hold Angle so that the tip of Angle is located in the P.C.Board.

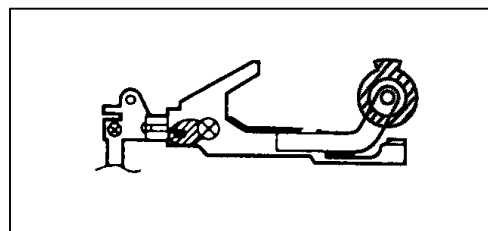


Figure M8

1-3-3-3. Loading Motor Unit

1. Unsolder the soldered portion (D). Unscrew 2 screws (E) and remove the Loading Motor Unit.

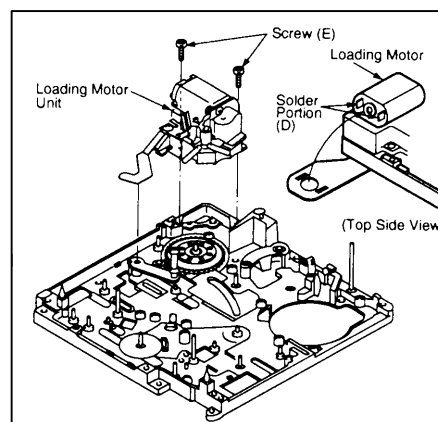


Figure M9

1-3-3-4. Head Amp C.B.A.

1. Unscrew screw (F) and remove the Capstan Cover. Disconnect FP5001. Unscrew 2 screws (G) and remove the Head Amp C.B.A.

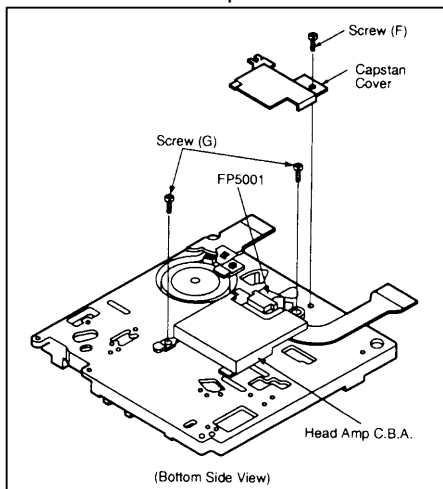


Figure M10

1-3-3-5. Cylinder Unit

1. Unscrew 3 screws (H) and remove the Cylinder Unit carefully. Do not touch the Video Head.

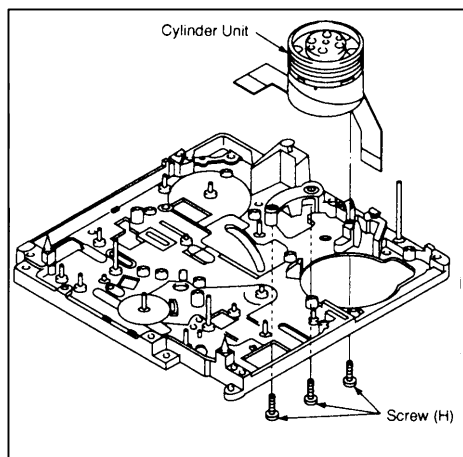


Figure M11

1-3-3-6. Cleaning Arm Unit

1. Unlock the locking portion of the Cleaning Arm Unit.

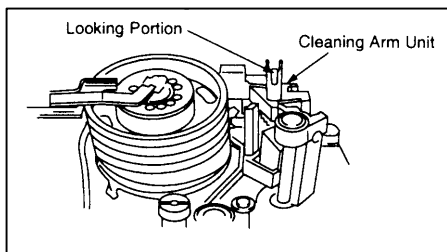


Figure M11

(Note of installation)

Hooking portion of the Cleaning Arm Spring is;
Spring (a) -- Cleaning Arm spring (a')
Spring (b) -- T2 Arm Unit (b')

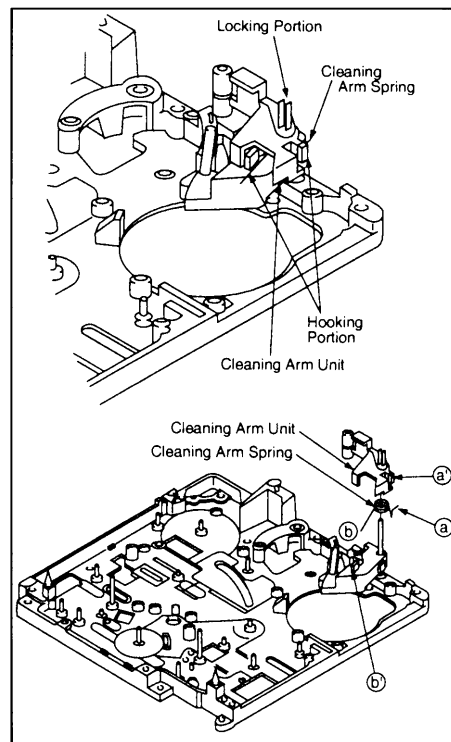


Figure M13

1-3-3-7. Pinch Arm & unlock T3

1. Unscrew screw (I), then slide the Pinch Pressure Plate and unlock the locking portion.

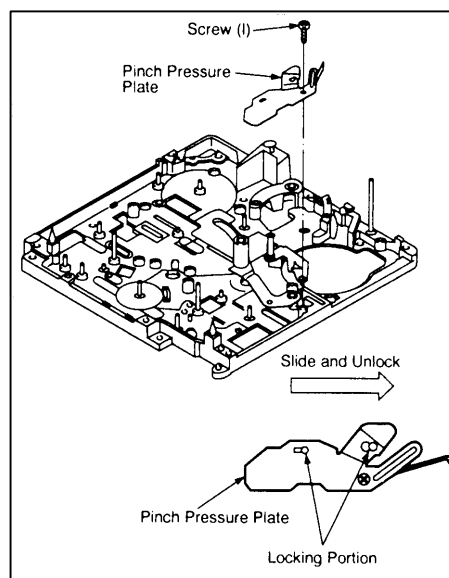


Figure M14

(Note of installation)

Remove the T3 Arm Unit.

After install T3 Arm Unit, the Height Adjustment is required.

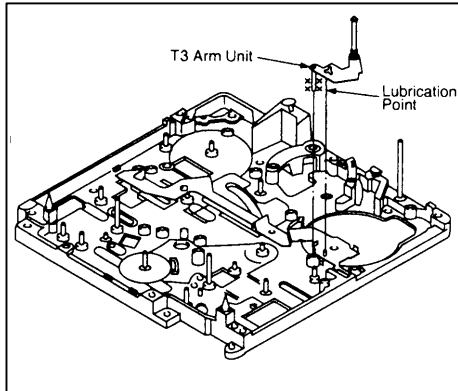


Figure M15

(Note of installation)

Remove the Pinch Arm Unit and Pinch Arm Spring.

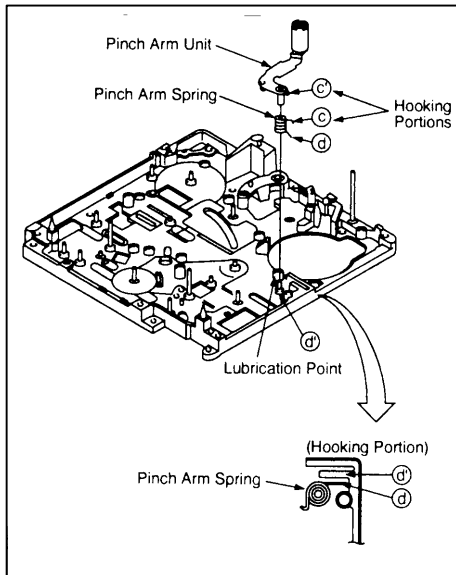


Figure M16

(Note of installation)

Hooking portion of the Pinch Arm Spring is;
Spring (c) -- Pinch Arm (c')
Spring (d) -- T3 Rod (d')

1-3-3-8. Tension Arm Unit

1. Turn the Mode Gear counter-clockwise until Tension Arm Unit slightly move to loading direction. Remove the Tension Arm Unit and Cut Washer (J).

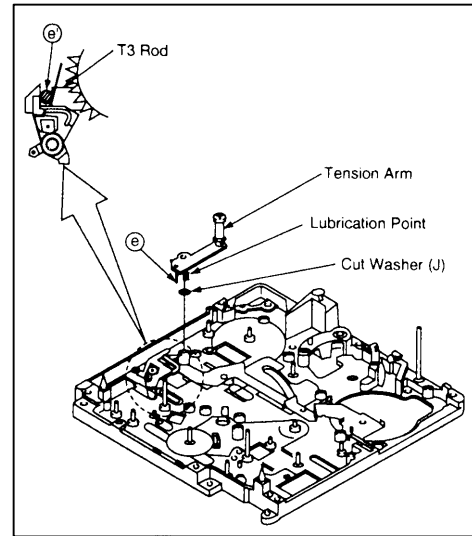


Figure M17

(Note of installation)

The projection (e) on Tension Arm meets guide (e') on the T3 Rod which is shifted by turning Mode Gear.

1-3-3-9. Reel Tables & Brakes

1. Unhook the hooking portion (f) and (f'). Unscrew 3 screws (K) and remove Cover Plate.

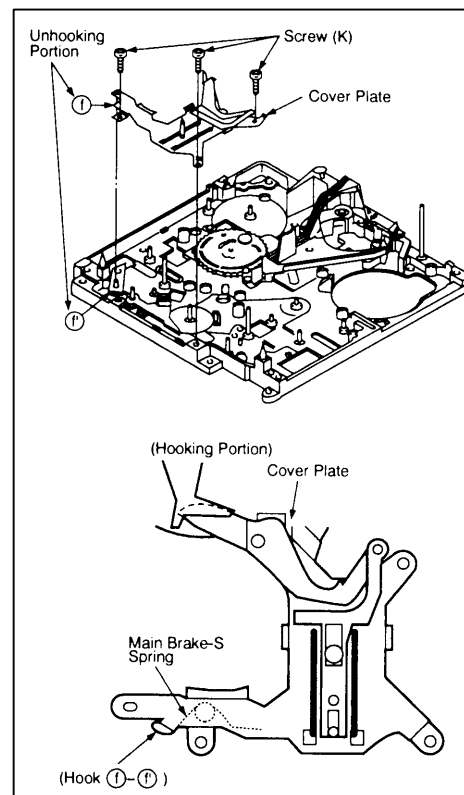


Figure M18

2. Remove Supply and Take-up Reel Tables.

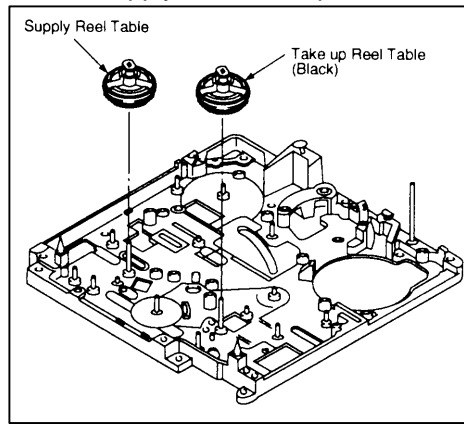


Figure M19

3. Unhook the hooking portion (g) and (g') of the Review Brake Spring and remove Review Brake.

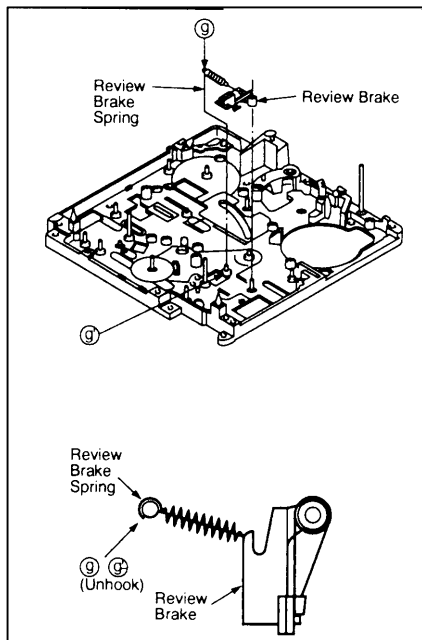


Figure M20

4. Remove the FF Brake and FF Brake Spring.

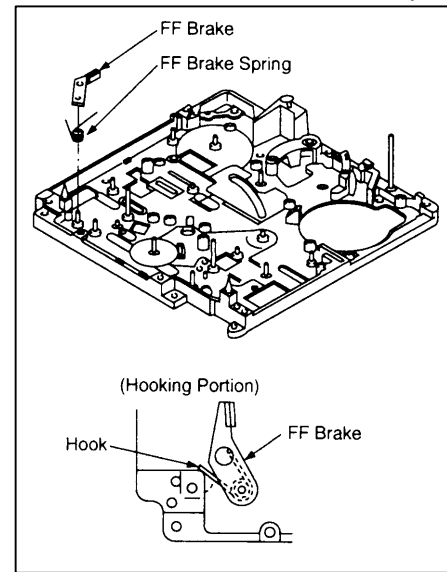


Figure M21

(Note of installation)

Confirm the hooking portion of the FF Brake Spring.

5. Remove the Main Brake S and Main Brake-S Spring.

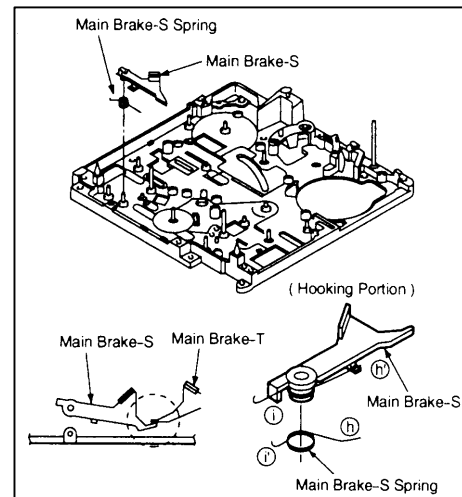


Figure M22

(Note of installation)

Confirm the hooking portion of the Main Brake-S Spring.

- Remove the Cut Washer (L) and Main Brake T Unit.

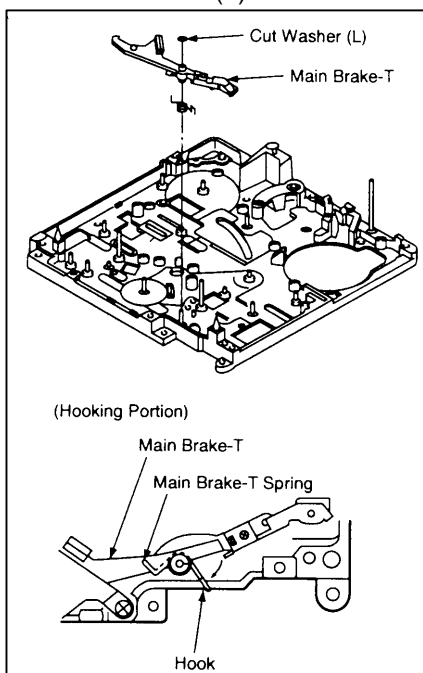


Figure M23

(Note of installation)

Confirm the hooking portion of the Main Brake T Spring.

1-3-3-10. Play & FF/REW Gear

- Remove the Play Idler and Play Gear.

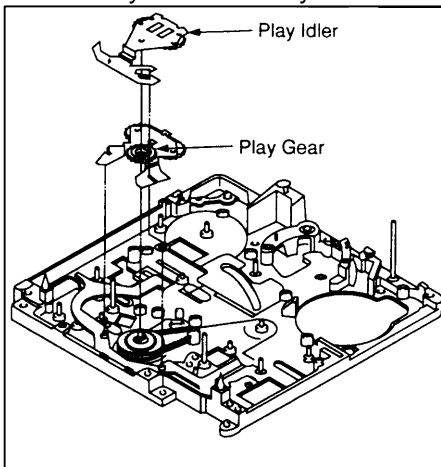


Figure M24

1-3-3-11. T2 Arm Unit

- Remove the Cut Washer (M) and T2 Arm Unit with spring.

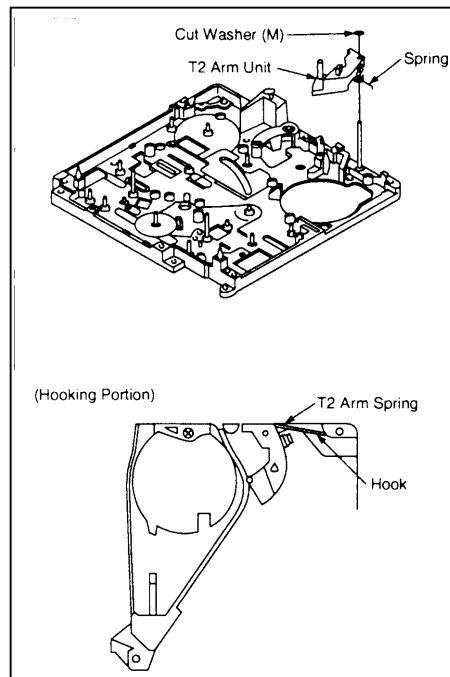


Figure M25

(Note of installation)

Confirm the hooking portion of the T2 Arm Spring.

1-3-3-12. S1 & T1 Base

- Turn the Mode Gear counter-clockwise until half loading position. Hold (N) and (O) positions on S1 and T1 Arm units and then unlock the locking portions (A) and (B) with tweezers.

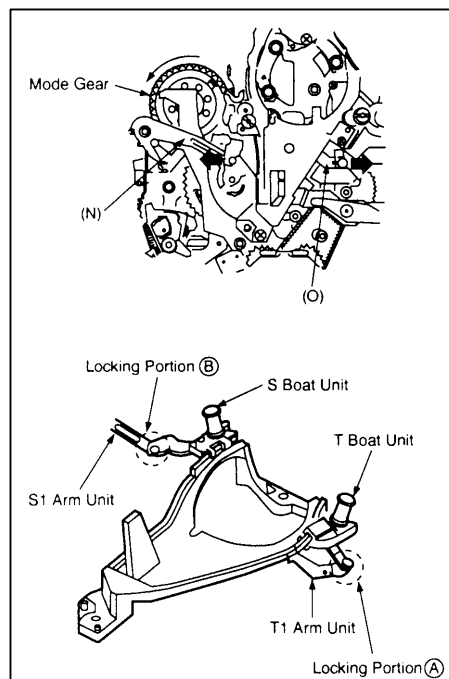


Figure M26

2. Remove 2 screws (P) and Cylinder Base Unit with S and T Boat Units. Then remove S and T Boat Units from the Cylinder Base Unit.

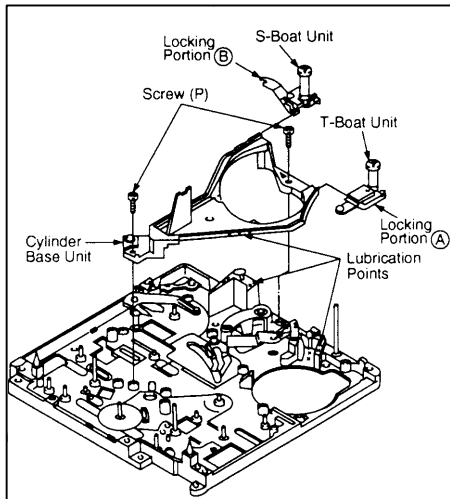


Figure M27

(Note of installation)

After install the Cylinder Base Unit move, S and T Boat to loading completed position by finger and turn the Mode Gear clockwise until half loading position. Then connect the locking portion (A) and (B).

1-3-3-13. S1 Arm

1. Turn the Mode Gear fully counter-clockwise. Remove the Cut Washer (Q) and S1 Arm Unit.

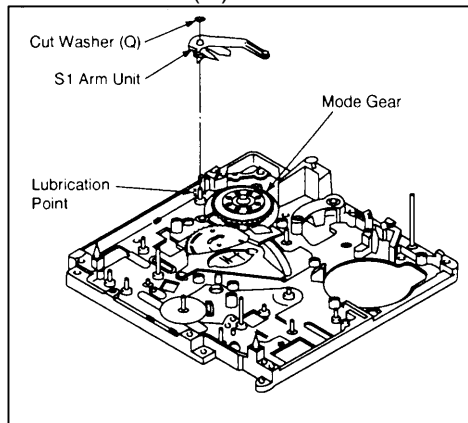


Figure M28

1-3-3-14. Radon Plate, Radon Arm & T1 Arm

1. Unscrew 2 screws (R) and remove Radon Plate.

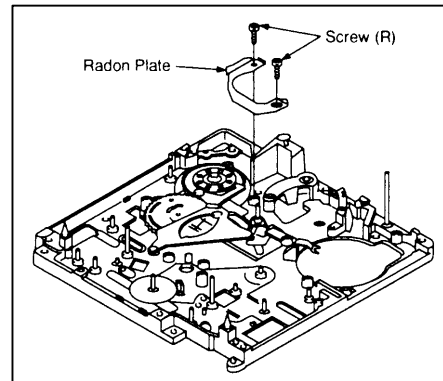


Figure M29

2. Unscrew screw (S) and remove Radon Arm Unit.

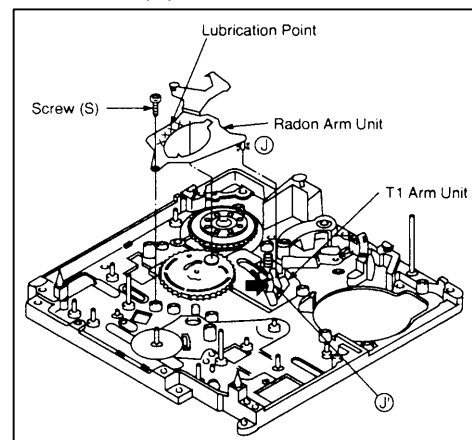


Figure M30

(Note of installation)

When installing the T1 Arm Unit, the projection (j) on the Radon Arm Unit is aligned to guide (j') on the T1 Arm Unit by pushing the T1 Arm Unit.

3. Remove the T1 Arm Unit.

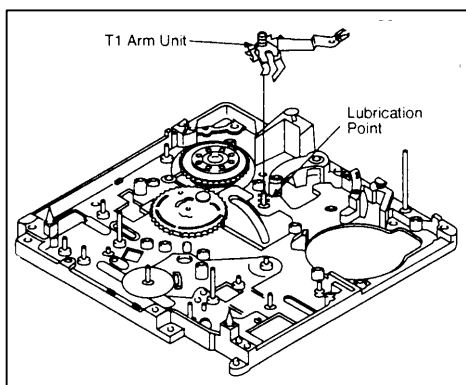


Figure M31

1-3-3-15. Pad Arm

1. Unhook the hooking portion (k') of the Pad Arm Spring. Remove the Cut Washer (T) and Pad Arm Unit.

(Note of installation)

Confirm the hooking portion of the Pad Arm Spring(k..k').

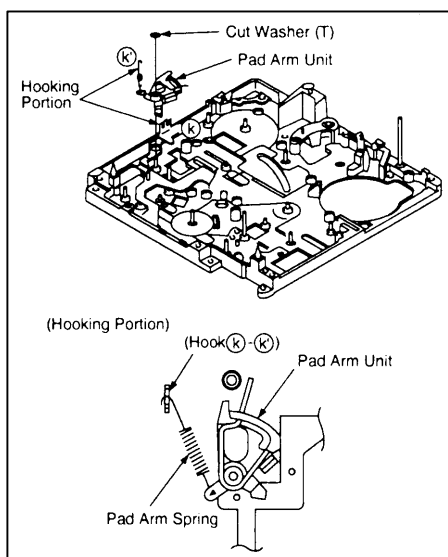


Figure M32

1-3-3-16. Eject Arm

1. Unscrew 2 screws(U) and remove the Eject Arm Unit.

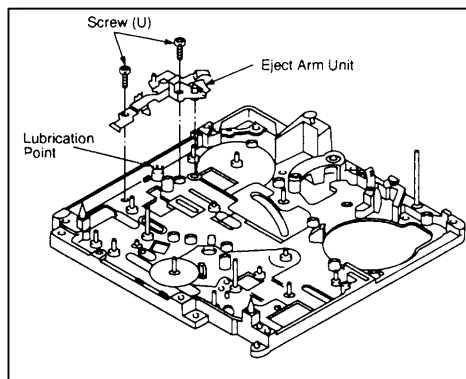


Figure M33

1-3-3-17. Mode Gear & Main Cam Gear

1. Remove the Main Cam Gear. Unsolder the soldered portion (l) on the Mechanism Flexible Board. Then remove the Mode Gear.

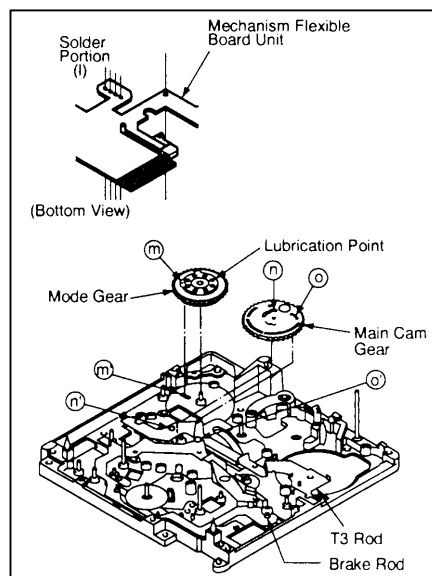


Figure M34

(Note of installation)

The projection (m) on the Mode Gear meets with the hole (m') on the Mechanism Chassis.

Push the Brake and T3 Rod in fully left direction.

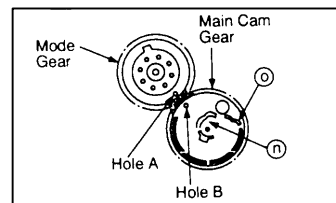


Figure M35

Install the Main Cam Gear so that the hole A on the Mode Gear is aligned to meet with the hole B on the Main Cam Gear.

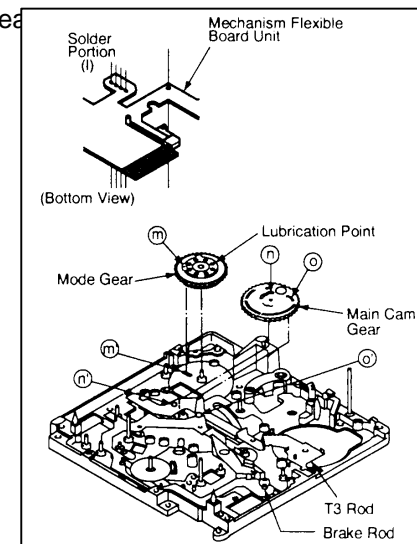


Figure M34

Shift the T3 Rod slowly in the right direction until guide (n) on the Main Cam Gear meets with the projection (n') on the T3 Rod.

Shift the Brake Rod slowly in the right direction until guide (o) on the Main Cam Gear meets with the projection(o') on the brake Rod.

1-3-3-18. T3 Rod & Brake Rod

1. Remove the T3 Rod. The projection (p) and (q) on the T3 Rod meet with the guide (p') and (q') on the Mechanism Chassis

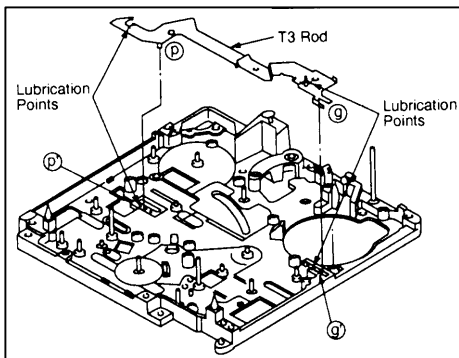


Figure M36

2. Unscrew 2 screws (V) and remove the Brake Rod, Brake Rod Plate A and B.

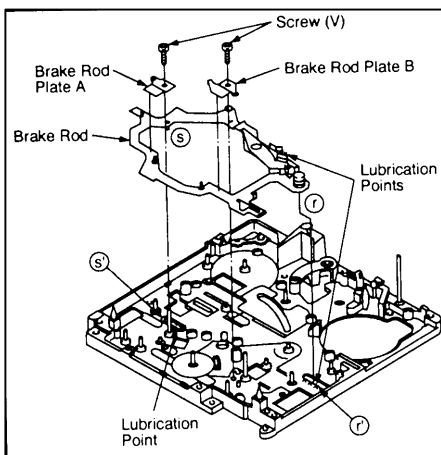


Figure M37

(Note of installation)

The projection (r) and (s) on the Brake Rod meet with the guide (r') and (s') on the Mechanism Chassis.

1-3-3-19. Capstan Belt

1. Remove the Center Gear and Washer (W). Unscrew screw (X) and remove LED Holder. Remove Cut Washer (Y).

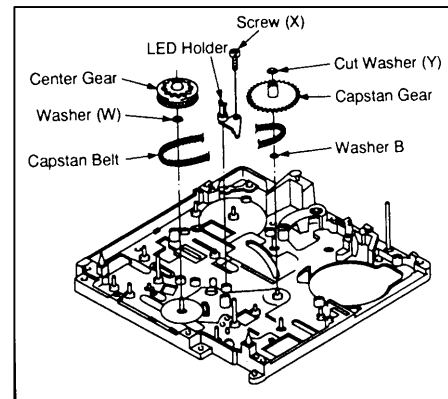


Figure M38

(Loosen a black screw on the Cap. Motor as shown in Fig.M36.) Slightly lift up in the direction and slowly remove the Capstan Gear. Do not bend the Capstan Shaft.

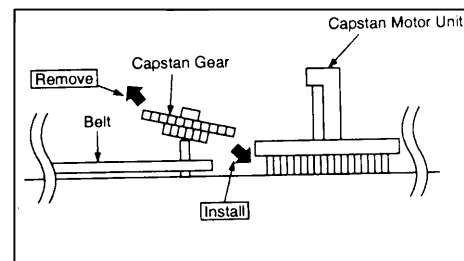


Figure M39

(Note of installation)

After install Capstan Gear, confirm no warp of the Capstan Gear, no bend of the Capstan Gear Shaft and smooth rotation of the Capstan and Center Gear.

2. Remove the Capstan Belt.

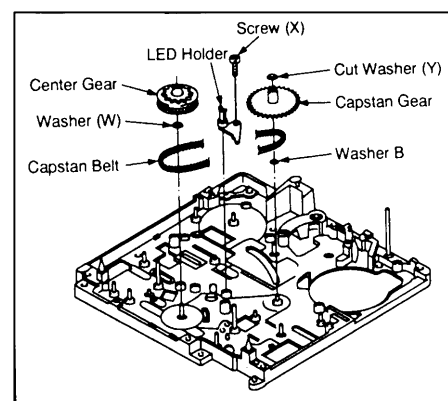


Figure M38

2.MECHANICAL ADJUSTMENT AND CONFIRMATION

When the following parts are replaced, the mechanical adjustment is required.

Tension Post

T3 Post

Pad Arm Unit

Supply or Take-up Reel Tables

2-1. Tension Post & T3 Post Height Adjustment

1. Set the Mechanism Plate (VFK1281) on the Mechanism Chassis.

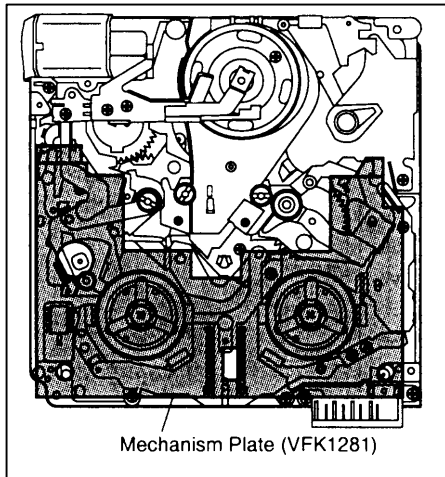


Figure M41

2. Turn the Mode Gear fully counterclockwise to make full loading condition by using Loading Gear Driver (VFK1276).

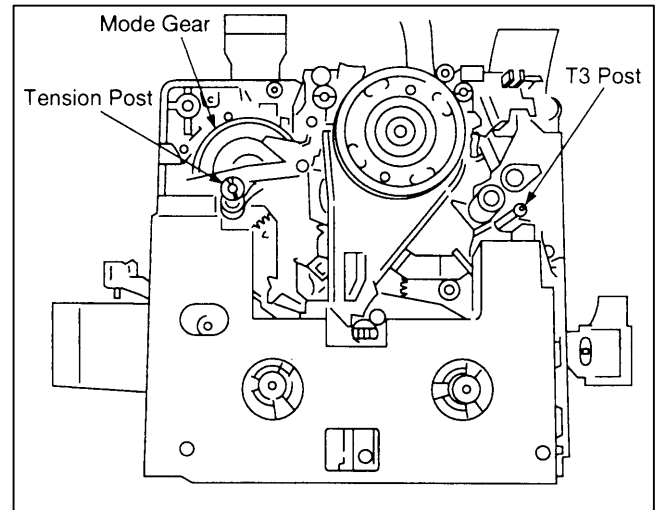


Figure M42

3. Adjust the Tension Post so the lower flange (A) point become same height of the top surface (B) of 2nd step of the Mechanism Plate as shown in Fig.A43.
4. Adjust the T3 Post so that the lower flange (C) point become same height of the top surface (D) of the Mechanism Plate as shown in Fig.A43.

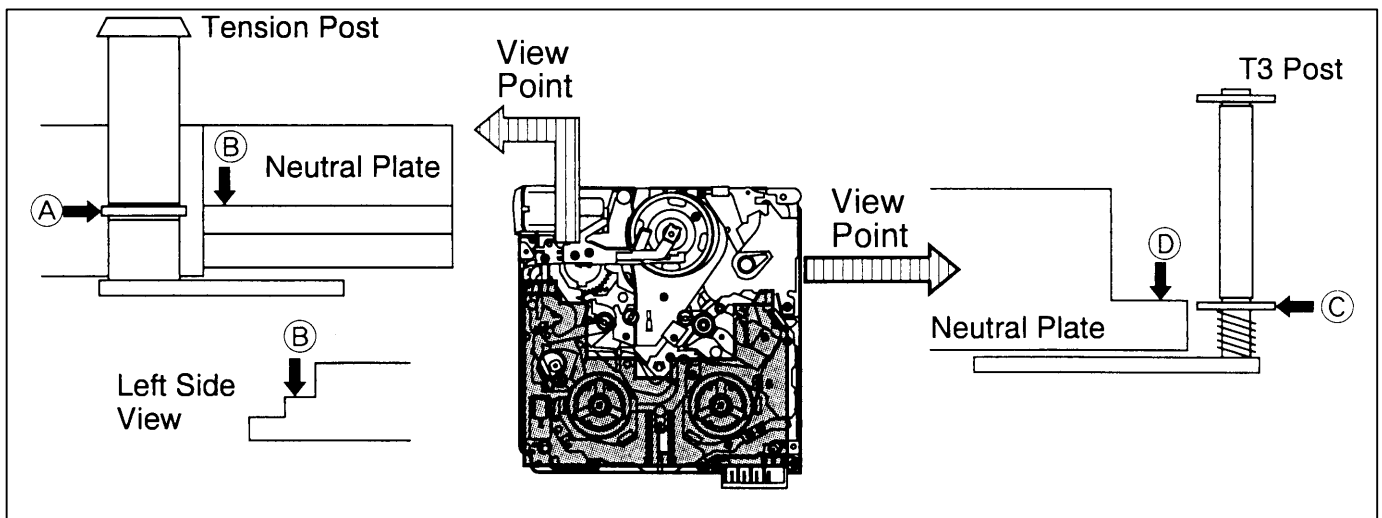


Figure M43

2-2. Tension Post Position Adjustment

1. Turn the adjustment piece on the Pad Arm Unit fully counterclockwise.
2. Turn the Mode Gear to set the Mechanism position in the play mode, that the Soft Brake of the Pad Arm Unit just touch to the Supply Reel Table as shown in Fig.M44.
3. Set the Mechanism Plate on the Mechanism Chassis as shown in Fig.M44.
4. Turn the adjustment piece on the Pad Arm Unit clockwise slowly until the surface of the Tension Post comes to 2nd step. Set the Mechanism Plate as shown in Fig.A12. in Fig.A9.

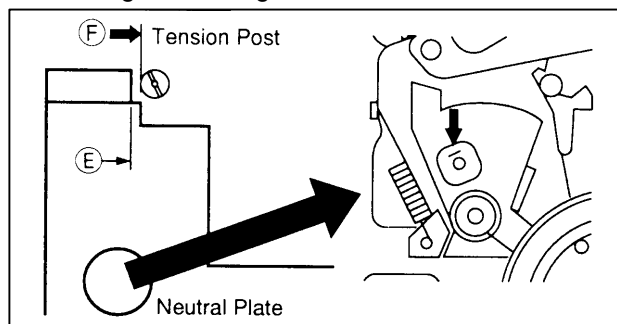


Figure M44

5. After adjustment, turn the Mode Gear to unloading direction then turn back to loading direction, and make sure that position is correct at above specification in Play position.

2-3. Supply & Take-up Reel Table Adjustment

This adjustment should be performed for Supply or Take-up Reel Table one by one.

1. Turn the adjustment screw (A) on top of the Supply or Take-up Reel Table fully clockwise. Then, place the Mechanism Plate on the Mechanism Chassis as shown in Fig.M41.
2. Hold the Mechanism plate by finger and slowly turn the adjustment screw counterclockwise until Reel Table just rotate with adjustment screw as shown in Fig.M45.
3. Remove the Mechanism Plate and hold the Reel Table by finger then turn the adjustment screw counterclockwise to 45 degrees from above step point.

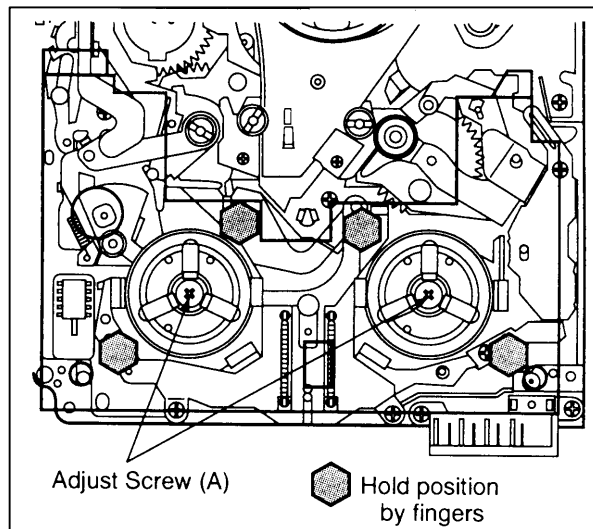


Figure M45

2-4. Confirmation of Tape Pass

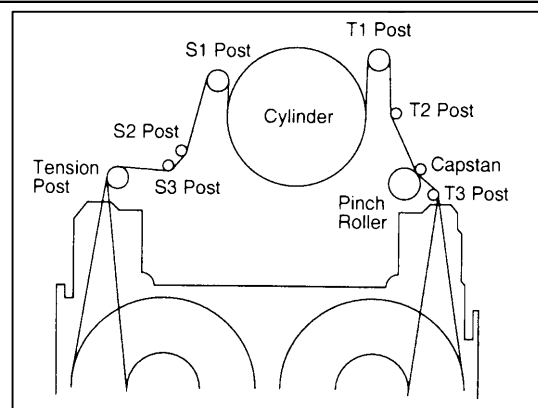


Figure M46

Play back the cassette tape and confirm that the tape pass without curling at the upper and lower guides of the following posts in the Play and REV modes as shown in Fig.M47.

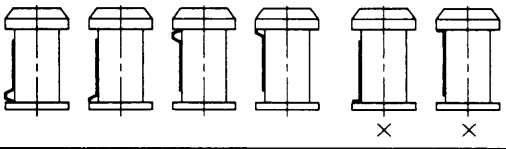
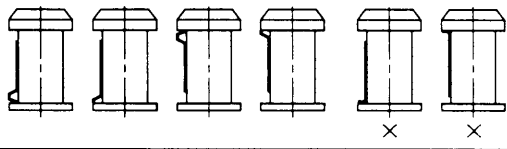
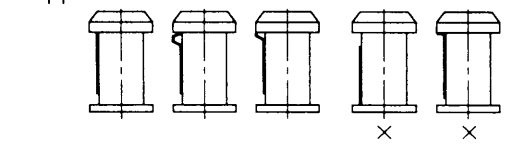
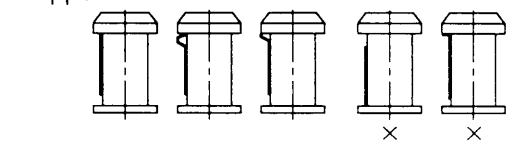
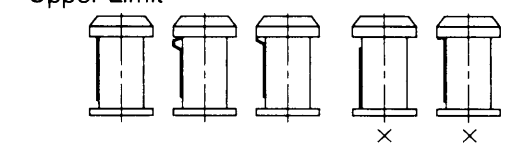
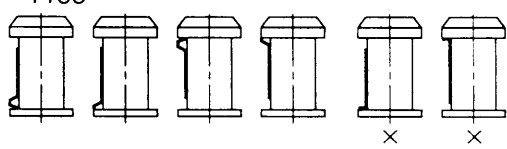
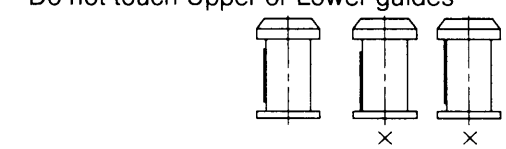
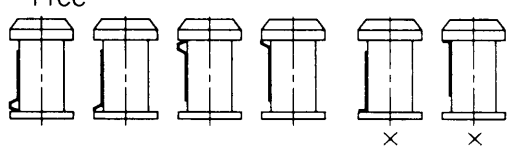
	PLAY	REV
Ten- sion	Free 	Free 
S1	Upper Limit 	Upper Limit 
T1	Upper Limit 	Free 
T3	Do not touch Upper or Lower guides 	Free 

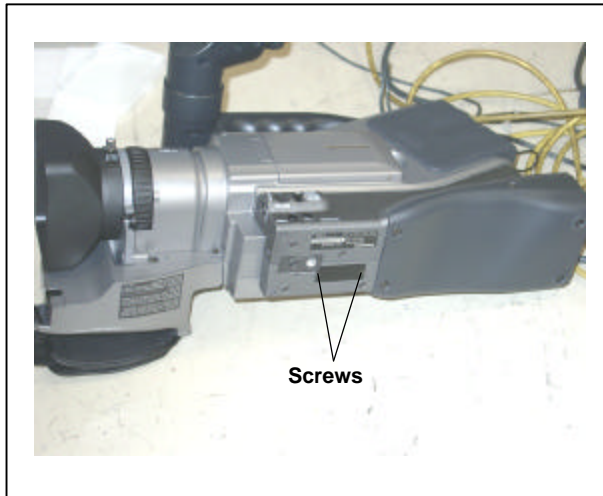
Figure M47

If there is curing or damage at the ether guide of posts, readjust the height of the posts by turning the post with the Post Adjustment Driver.

2-5. Confirmation of the Envelope

To confirm the envelope output, connect the Connection and Measuring Boards as described below.

1. Unscrew 2 screws and remove the EVR cover.



2. Connect the 2 pcs of 30 pin flat cables between P101 / P102 on the Measuring Board, and 2 connectors on the Connector Board. Make sure that the contact surface of 2 pcs of 30 pin Flat Cables are inner side and direction of the Connection Board is as shown in Figure M51. Then connect the Extension board.

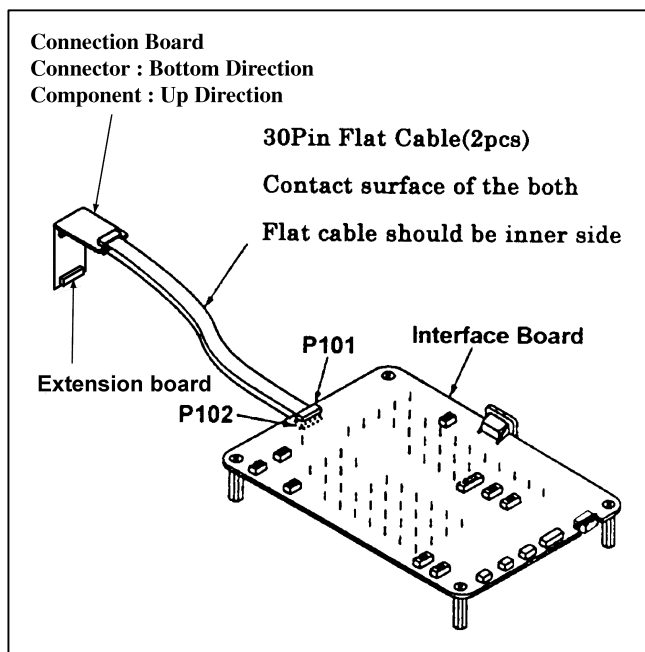


Figure M51

3. Set the Connector Board with the 30 pin Cables to the unit. Make sure that the direction of the Connection Board is correct as shown below.

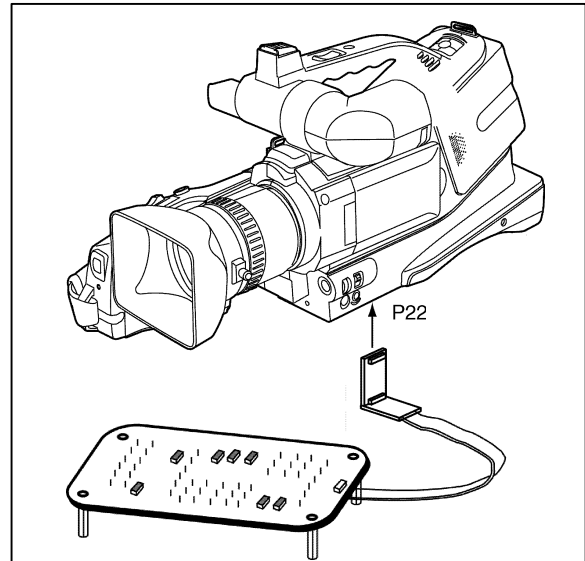


Figure M52

4. Connect the oscilloscope to the Measuring Points [ENVELOPE] and [HID] as a trigger on the Measuring Board.
5. Play back the color bar alignment tape and confirm that the Envelope is within the following specifications.

V1/V max. 0.9

V2/V max. 0.9

V3/V max. 0.9

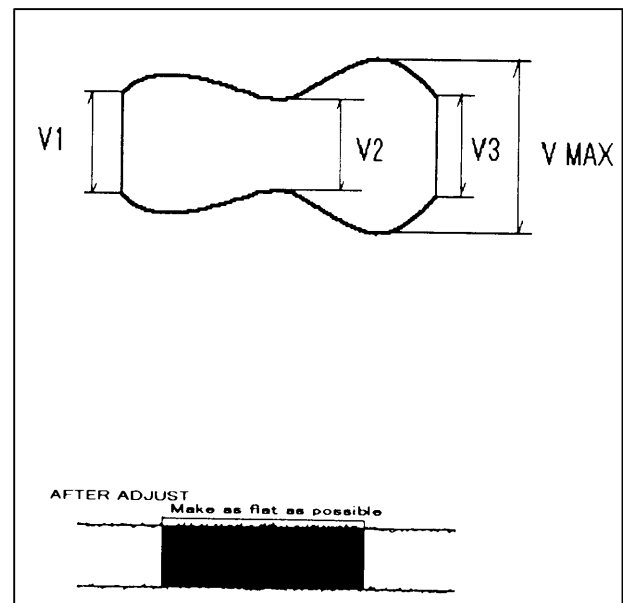


Figure M53

6. If it is out of the specification, adjust the height of the Tension Post and T3 Post.

2-6. LISTA Adjustment Procedures

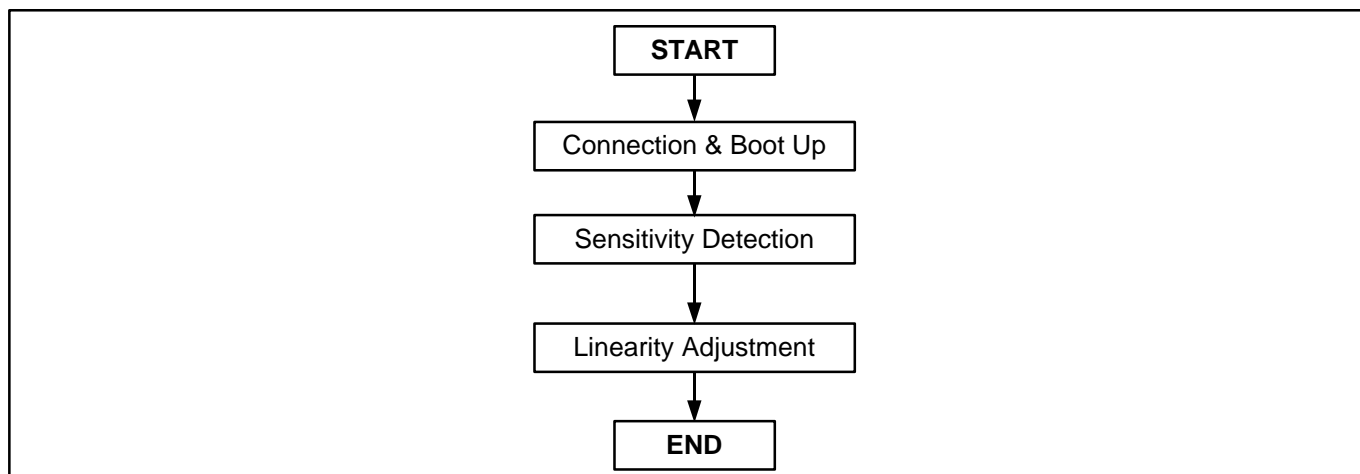


Figure 1

2-6-1. LISTA Connection and Boot Up

TAPE	VFM3010EDS (DV LISTA)
M. EQ	Personal Computer (A/D Board should be installed.)
TOOL	VFK1481B (LISTA Software), VFK1186 (LISTA Cable), VFK1300 (A/D Converter Board), VFK1308P (Measuring Board), VFK1409S (Measuring Board)
TP	TP F2 : ATF-ERR (VFK1409S), TP HID1 : TRG (VFK1308P), TP GND : GND (VFK1409S)

1. Connect a PC, the Measuring Board and the AG-DVC10 as shown below.

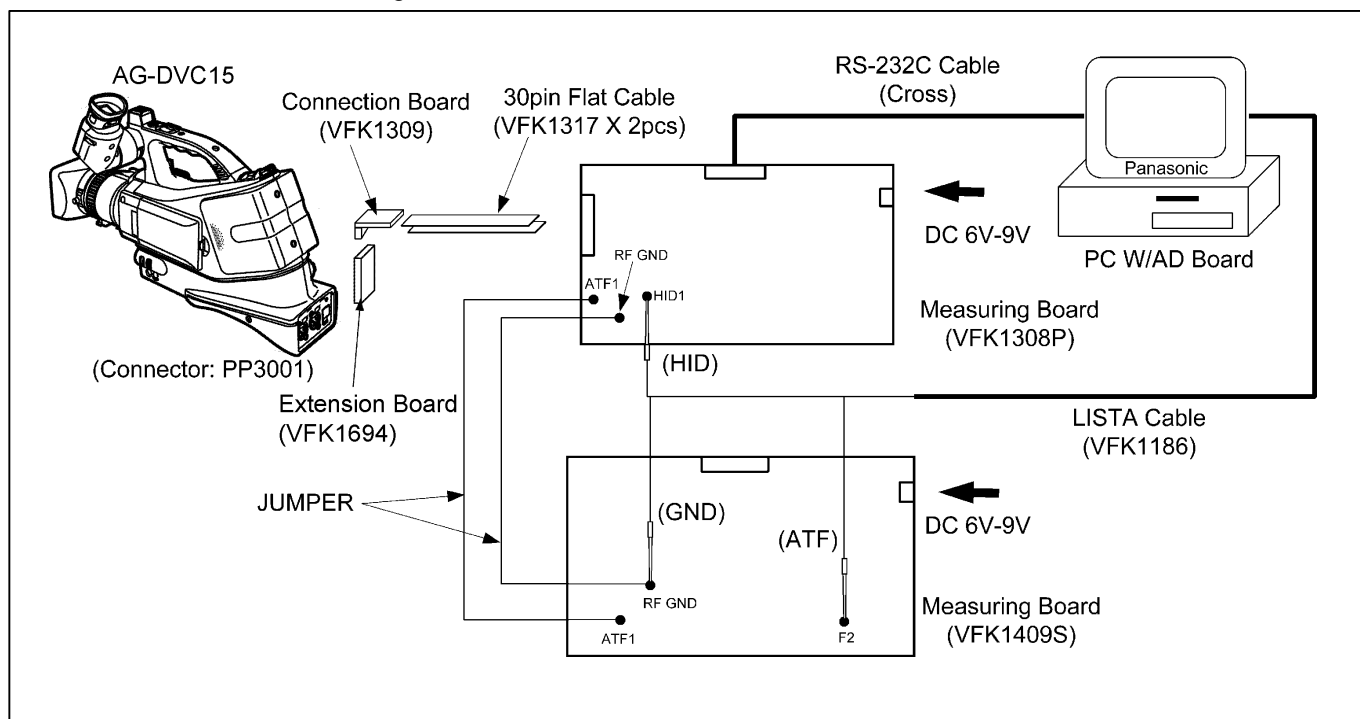


Figure 2

2. Connect the clips of the LISTA cable to test point on the Measuring Board. (VFK1308P) (VFK1409S) (Refer to Items “**Sensitivity Adjustment**” and “**Linearity Adjustment**”.)

- Set the switches on the Measuring Board as shown below.

<VFK1308P>			<VFK1409S>		
SW REF.	NAME OF SW	SETTING POSITION	SW REF.	NAME OF SW	SETTING POSITION
SW101	RS-232 Select	It is depend on the type of the cable between the measuring board and PC. *Ordinary 9pin RS-232C Cross Cable: D-SUB Position *M4 RS-232C Cable: M3 Position	-----	LISTA ON - OFF	ON Position
SW103	VTR Test	L Position			
SW104	BST Test	NORMAL Position			
SW106	REC I	OFF Position			
SW107		CENTER Position			

Figure 3

- Boot up the LISTA software on DOS mode.

< How to Installation and Boot Up >

All files on the floppy disk (VFK1481B : LISTA Software) copy to created directly on PC (i.e.; C:¥LISTA). Type "**LISTA**" and press **ENTER** key, then boot up the LISTA software VFK1481B.

- After boot up the LISTA software, <<< **FORMAT SELECT** >>> display appeared. Select the item "**DV**".
- After select the format, <<< **VTR SELECT** >>> display appeared, and select the model "**AG-DV1000 or DVC10**".

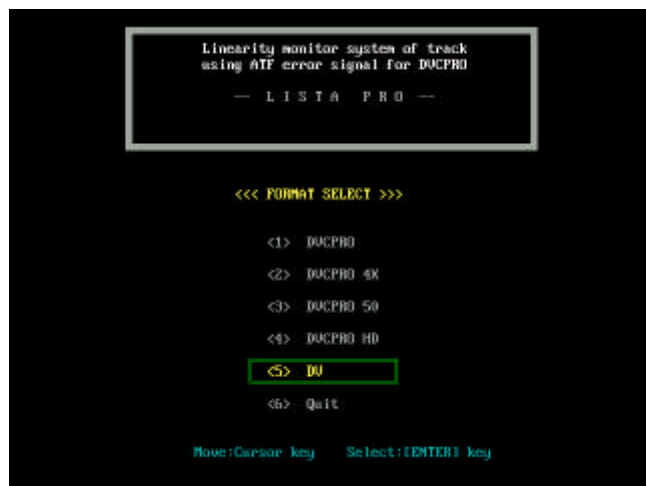


Figure 4



Figure 5

- Next, select the Serial number of the Alignment tape on the screen. In case of LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select the item "<4> **Alignment Tape**" for entry the data on the attachment sheet, which is enclosed of alignment tape.

8. In case of LISTA software have resisted data of alignment tape, select the serial number of Alignment tape, then appear message “ok?(y/n)” on the screen. And press “ Y ” or “ ENTER ” key, then LISTA main menu is display on screen.

< In case of Alignment Tape resisted already >

<< Alignment Tape Select >>					
No.	Serial No.	PAL/NTSC	Check Sum	Type	Entry Date
[1]	0000	NTSC	0.0	18 un	10-05-1995
[2]	0000	PAL	0.0	18 un	02-20-1998
[3]	LRC-13	NTSC	0.0	10 un	06-01-1998
[4]	9804420	PAL	0.2	18 un	09-08-1998
[5]	Lrc-20	PAL	0.0	10 un	09-09-1998
[6]	9806488	NTSC	0.1	18 un	12-14-1998

<== ok? (y/n)

Move:Cursor key Select:[ENTER] key Cancel:[ESC] key

Figure 6

< In case of Alignment Tape does not resisted >

<< Alignment Tape Select >>					
No.	Serial No.	PAL/NTSC	Check Sum	Type	Entry Date
[1]	0000	NTSC	0.0	18 un	10-05-1995
[2]	0000	PAL	0.0	18 un	02-20-1998

Move:Cursor key Select:[ENTER] key Cancel:[ESC] key

Figure 7

2-6-2. How to Entry the Alignment Tape Data

1. Select the item "<4> Alignment Tape" on the LISTA main menu.
2. Select the item "<2> ENTRY" on the alignment menu.
3. After display the screen of <<Alignment Tape Data Entry>>, first input the Serial Number follow the printed number on the tape label. And input the number "0" or "1" for selected the PAL/NTSC. And after that for entry the tape type, incase of DVCPRO input to "0", in case of DV input to "1".
4. After select the tape type, the frame for input the DATA and CHECK SUM appeared on the screen. Input the numerical value in numerical order on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the sheet.
5. After entry the data, select "<1> SELECT" on the Alignment Tape Menu and select the serial number of the alignment tape.

<< Alignment Tape Data Entry >> **Serial No. 0596003 (NTSC) 10mm**

[1]	- 0.1
[2]	0.1
[3]	0.0
[4]	0.2
[5]	0.6
[6]	0.5
[7]	0.7
[8]	0.9
[9]	1.0
[10]	0.8

[11]	0.7
[12]	1.0
[13]	0.7
[14]	0.5
[15]	0.2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0.1
[20]	- 0.6

[21]	- 0.4
[22]	- 0.2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

[31]	- 0.4
[32]	- 0.6
[33]	- 0.3
[34]	- 0.2
[35]	- 0.1
[36]	- 0.3
[37]	- 0.1

[CS]	- 0.6
------	-------

2-6-3. LISTA Sensitivity Detection

TP	TP F2 : ATF ERR (VFK1409S), TP HID1 : TRG (VFK1308P), TP GND : GND (VFK1409S)
VTR MODE	PLAY
ADJ. MODE	Tape Speed 101.2% Mode (AUTO)
TAPE	VFM3000EDS (DV LISTA)
SPEC.	70 mV / μ m to 300 mV / μ m

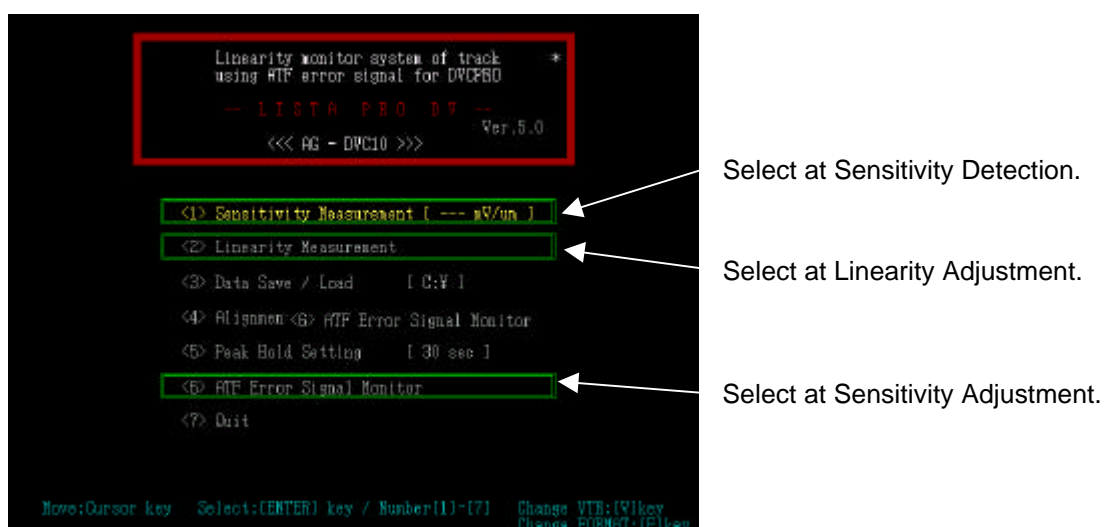


Figure 8

1. Insert the DV Alignment Tape (VFM3000EDS) to the Machine.
2. Select item "<1> Sensitivity Measurement " and press "ENTER".
3. Then the tape is played back (tape speed : 101.2%) automatically.
4. Confirm the sensitivity value of the screen is with in specification.

<<Sensitivity Measurement Finish>>		
Sensitivity	142.95 (mV/um)	Confirm that the value of Sens.Value1 and Sens.Value2 in specification
Sens.1	138.43 (mV/um)	
Sens.1	147.48 (mV/um)	

Figure 9

2-6-4. LISTA Linearity Adjustment

TP	TP F2 : ATF ERR (VFK1409S), TP HID1 : TRG (VFK1308P), TP GND : GND (VFK1409S)
ADJ.	S1 and T1 Post Height
VTR MODE	PLAY
ADJ. MODE	Linearity Adjustment Mode (AUTO)
TAPE	VFM3000EDS (DV LISTA)
TOOL	VFK1149A : Post Driver
SPEC.	Linearity : less than 3 μ m

1. Insert the DV Alignment Tape (VFM3000EDS) to the Machine.
2. Select the item "<2> Linearity Measurement" on the LISTA Main Menu, then appeared Linearity Waveform.
3. When the waveform as shown below figure is displayed on the screen, press the "BS (Back Space)" key for display the waveform positioned at the center of the scale on screen. Adjust S1 and T1 post height by using the post driver so that the linearity waveform is become flat as possible, and it should be within specification.
(Adjust linearity waveform in the red dot line on the screen.)

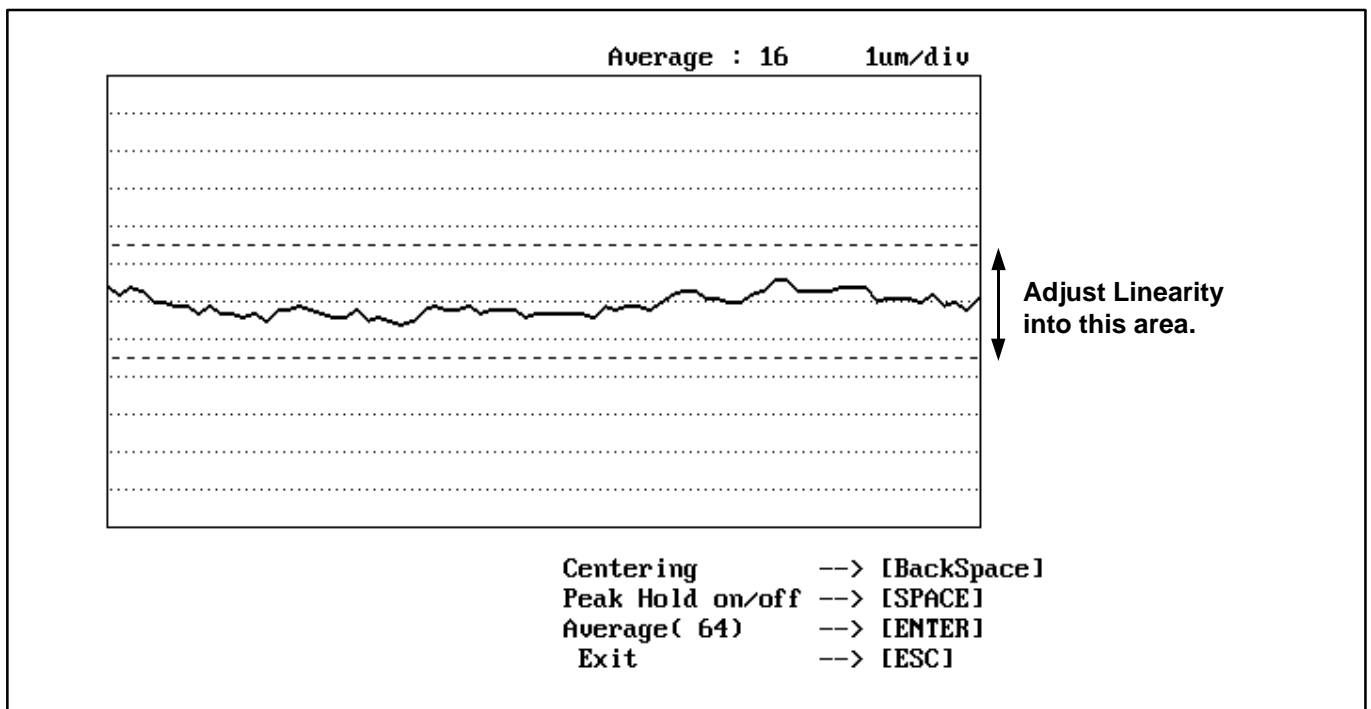


Figure 10

POINT :

The part of left side of waveform (entrance side) is adjusted by height of S1 post and part of right side of waveform (exit side) is adjusted by height of T1 post.
Lower part of above waveform of figure is displayed lead of Cylinder.
When the post driver is remove from upper part of post, linearity waveform is changed.
After finish this adjustment, eject the tape and insert the tape again for confirm the shape of linearity waveform does not changed.

SECTION 4

ELECTRICAL ADJUSTMENTS

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7-5. Gamma Level Adjustment.....	EAD-10
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ELECTRICAL ADJUSTMENT PROCEDURES

1. PREPARATION

To perform electrical adjustments completely, the following measuring equipment is required.

1-1. Measuring Equipment

Dual-Trace Oscilloscope		Specification
	Voltage Range	0.001 to 50V/Div.
	Frequency Range	DC to 100MHz
	Probes	10:1, 1:1
DVM (Digital Volt Meter)		
Frequency Counter		
	Frequency Range	0 to 150MHz

Fig.E1

1-2. Servicing Fixtures and Tools

Please refer to 4-1. In section 2.

1-3. Adjustment System

For performing the electrical adjustment, the following adjustment system is required.

The measuring board (VFK1308P) as shown in figure E2 has 2 types of RS-232C connectors 9pin D-sub connector and M3 RS-232C connector.

A) 9 Pin RS-232C D-sub Connector

If an ordinary 9-pin RS-232C cross cable is available, connect it between the measuring board and personal computer as shown in figure E2.

B) M3 RS-232C Connector

Also M3 RS-232C cable can be used instead of ordinary 9-pin RS-232C cross cable.

The part number of M3 RS-232C cable is VFK1395.

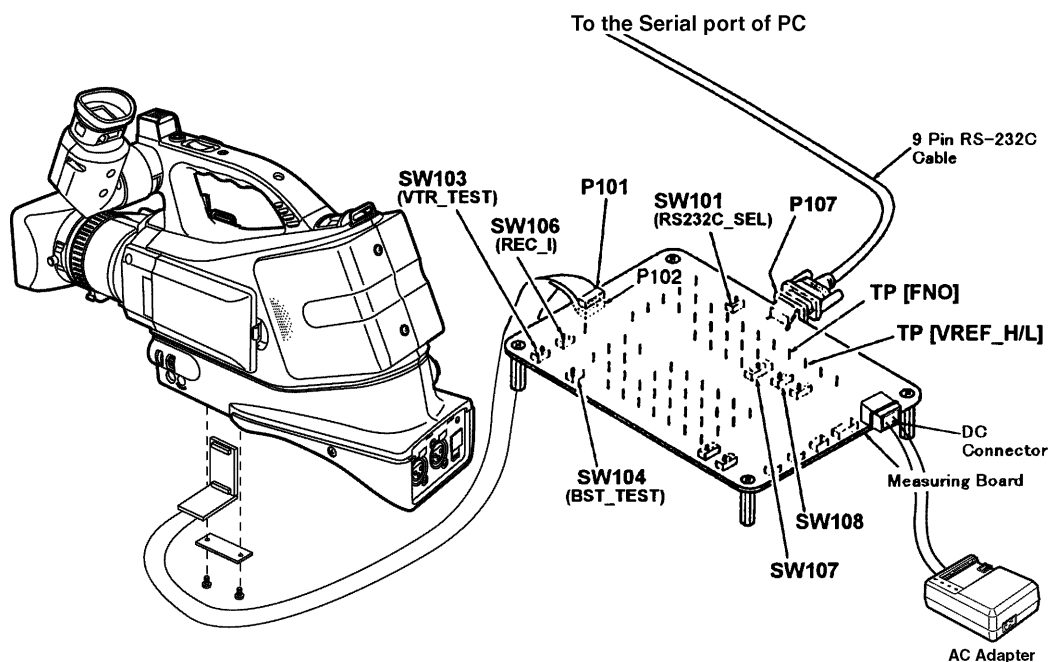


Fig.E2

1-4. System Hook up Procedures

1. Unscrew 2 screws and remove the EVR cover.

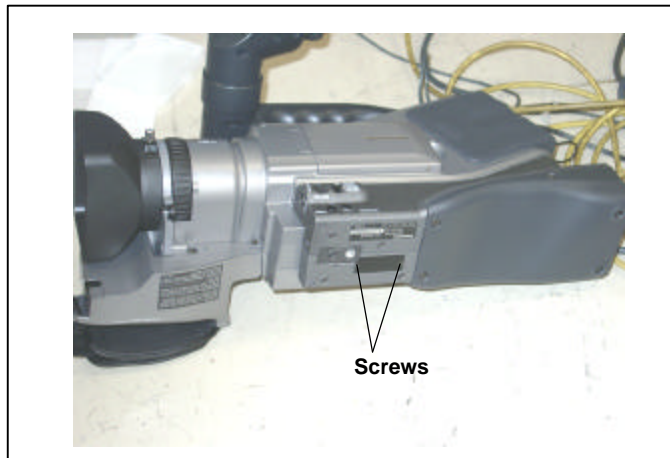


Fig.E3

2. Connect the 2 pcs. of 30 pin flat cables between P101/P102 on the Measuring Board, and 2 connectors on the Connector Board. Make sure that the contact surface of 2 pcs. of 30 pin Flat Cables are inner side and direction of the Connection Board is as shown in Figures E4. Then connect the Extension board.

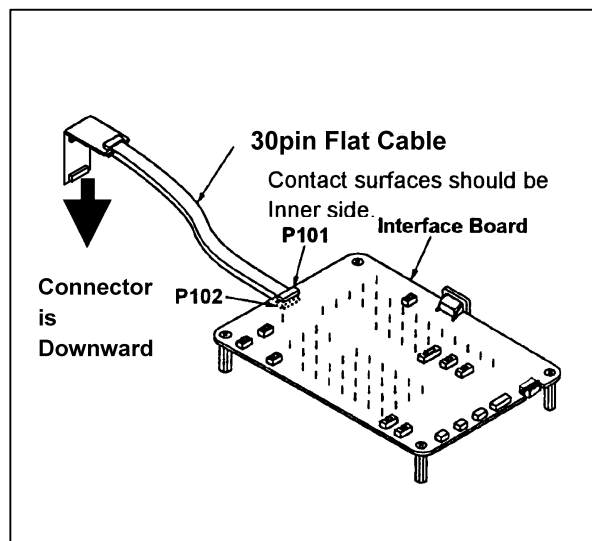


Fig.E4

3. Set the Connector Board with the 30 pin Cables to the unit as shown in Figure E5. Make sure that the direction of the Connection Board is correct as shown in Figure E5.

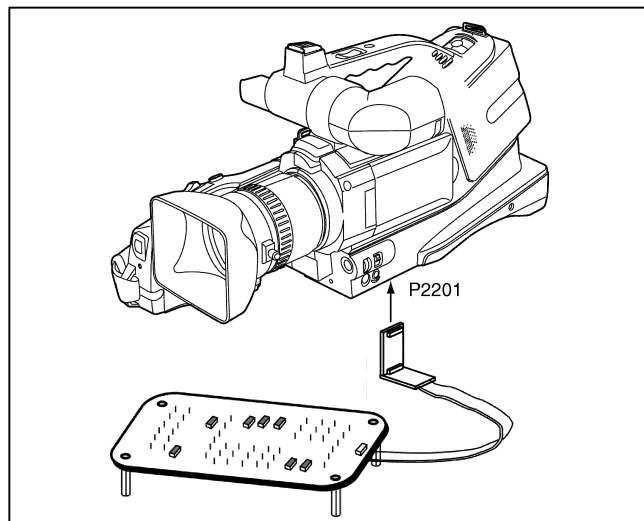


Fig.E5

4. Connect the AC adapter or set the Battery to the unit.
5. Connect a 9 pin RS-232C cable between the Measuring Board and RS-232C connector on Personal Computer as shown in Figure E2.
6. Supply DC6V to the Measuring Board (VFK1308P).
7. Unless otherwise specified on the message of the EVR software, set the switches on the Measuring Board as shown in the table below.

SW REF.	NAME OF SW	SETTING POSITION
SW101	RS-232 Select	It is depend on the type of the cable between the measuring board and PC. *Ordinary 9pin RS-232C Cross Cable: D-SUB Position *M4 RS-232C Cable: M3 Position
SW103	VTR Test	L Position
SW104	BST Test	NORMAL Position
SW106	REC I	OFF Position
SW107		CENTERT Position

Fig.E6

Using halogen lamps in the camera room.

The camera adjustments should be performed under the following lighting condition.

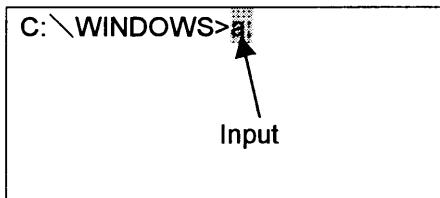
Color Temperature	:3100K°
Lumination	:1400Lux

2. PC EVR (ADJUSTMENT) SOFTWARE

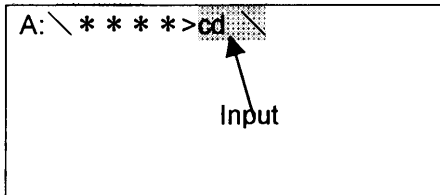
2-1. BOOT UP THE ADJUSTMENT SOFTWARE

1. At the first, copy the EVR software from floppy disc (VFK1661A) to the HDD in your Personal Computer (PC).
2. Power ON the PC.
3. Restart the PC in DOS mode.
4. Boot up the EVR program as the following steps.
 - 1) Type "a:" and then press the "ENTER" key.

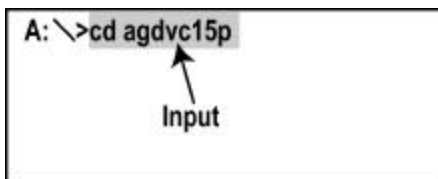
C:\WINDOWS>a:



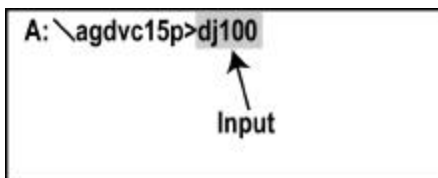
- 2) Type "cd \" and then press the "ENTER" key.



- 3) Type the "cd agdvc15p" and press the "ENTER" key.



- 4) Type the "dj100" and then press the "ENTER" key.



- 5) Wait for a few seconds so that the EVR adjustment program is started.
- 6) For the adjustments, follow the program display.

2-2. How to Use the Main Menu

Select a Sub Menu to check, adjust the unit and etc. by pressing ↑↓ (UP/DOWN) Key in Main Menu. Then press "ENTER" Key, the Sub Menu will be displayed.

Note: Menu (pages) 3,4 and 5 are needed for adjustment.

The menu (page) 5 is not available for AG-DVC10 because it has no LCD monitor.

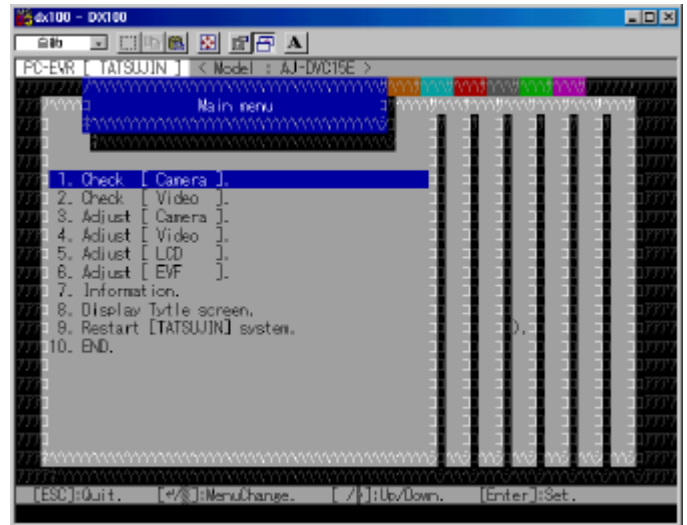


Fig.E7

With using ←→ keys, also the menu can be changed.

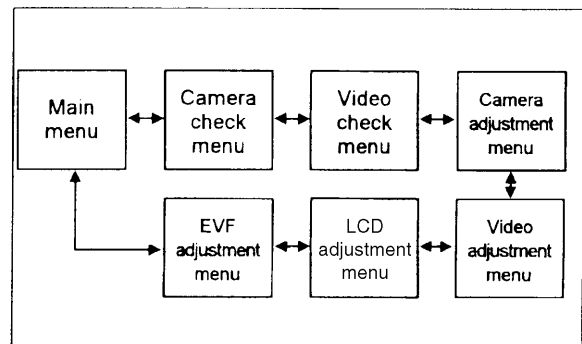


Fig.E8

2-3. Introduction of the Sub Menu

1) Camera Check Menu

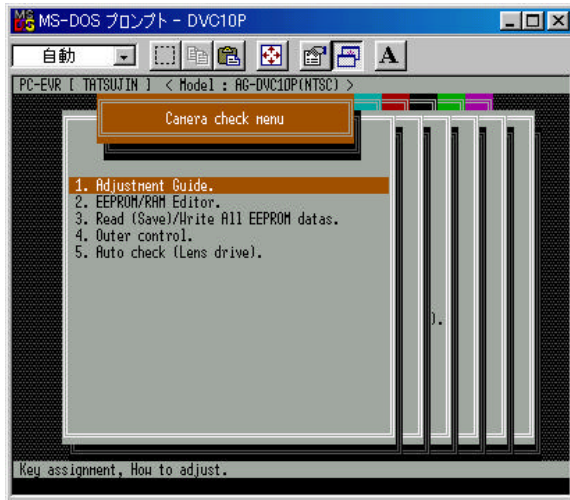


Fig.E9

2) Video Check Menu

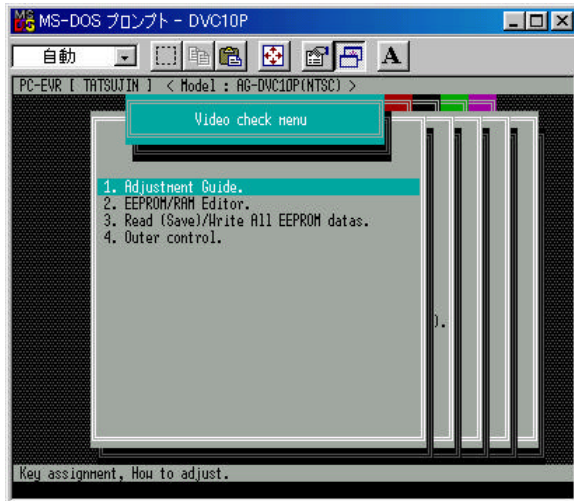


Fig.E10

3) Camera Adjustment Menu

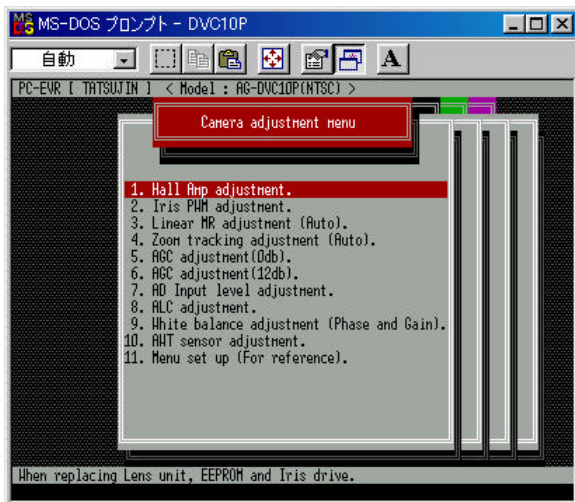


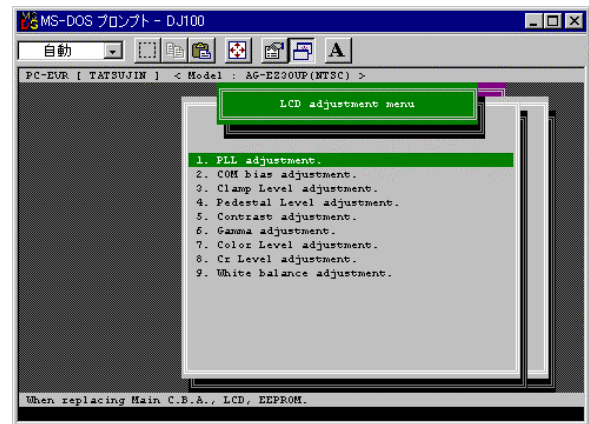
Fig.E11

4) Video Adjustment Menu



Fig.E12

5) LCD Adjustment Menu



6) EVF Adjustment Menu

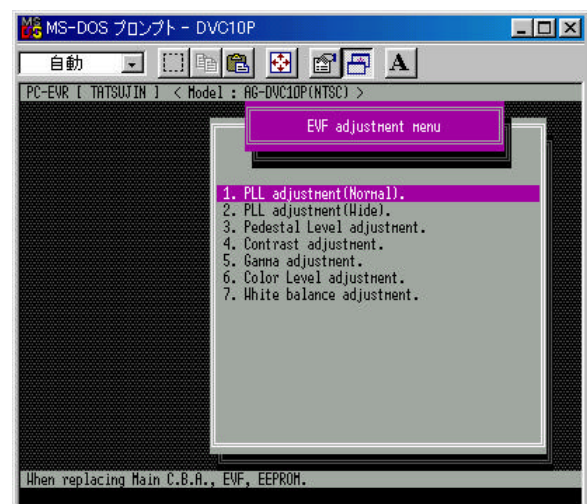


Fig.E13

2-4. Restoration of Connecting Error

This program checks connecting condition with this Unit all the time.

When the power of this Unit is turned off, VTR is reset, or cable is disconnected during servicing, restart the program by pressing “CTRL” key and “BREAK” key Simu Hq neously

2-5. Waveform Illustration

This program displays the waveform illustration, when the “F2” key is pressed in the adjustment mode.

3. EEPROM

All adjustment data has been stored in the EEPROM.

There are two EEPROM in this unit as shown in the table below.

EEPROM LOCATION

C.B.A.	EEPROM IC Ref.No.
Camera Main C.B.A.	IC501
VTR Main C.B.A.	IC2005

(Note)

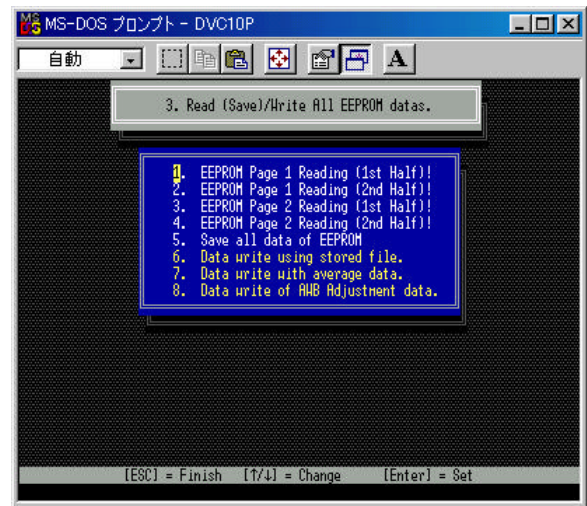
Be sure to save both the EEPROM data into the personal computer before performing service and adjustment; in order to avoid any accidental data loss.

3-1. How to Save Camera EEPROM Data

- 1) Select “1.Check [Camera].” In the Main menu, and then press the “Enter” key.
- 2) Select “3.Read [Save]/Write All EEPROM data” in the Camera check menu, and then press the “Enter” key.



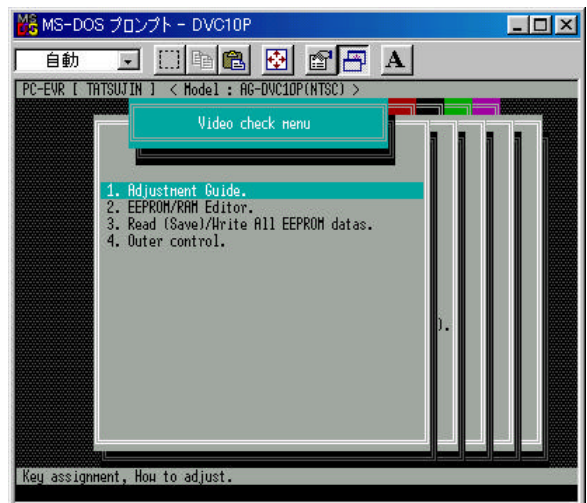
- 3) Select “5.Save all data of EEPROM” in Read [Save]/Write All EEPROM data menu, and then press the “Enter” key.



- 4) Type the File name and, then press the “Enter” key. The data of EEPROM (IC501) can be stored in the personal computer.

3-2. How to Save VTR Main EEPROM Data

- 1) Select “2.Check [Video].” In the Main menu, and then press the “Enter” key.
- 2) Select “3.Read [Save]/Write All EEPROM data” in the Video check menu, and then press the “Enter” key.



- 3) Select "2.Save all data of EEPROM data" in Read [Save]/Write All EEPROM data menu, and then press the "Enter" key.



- 4) Type the File name, and then press the "Enter" key.
The data of EEPROM (IC2005) will be stored in the personal computer.

3-3. REWRITE Saved Data

When it becomes impossible to adjust during service adjustment or the Camera Main on VTR Main C.B.A. is replaced, rewrite the saved data which is stored in EEPROM as follows. And readjust.

3-4. How to Rewrite Camera Main C.B.A. Saved Data

- 1) Select "1.Check [Camera]." In the Main menu, and then press the "Enter" key.
- 2) Select "3.Read [Save]/Write All EEPROM data" in the Camera check menu, and then press the "Enter" key.
- 3) Select "6.Data write using stored file" in Read [Save]/Write All EEPROM data menu, and then press the "Enter" key.
- 4) Type the saved file name, and then press the "Enter" key.
- 5) The data can be written in EEPROM (IC501).

3-5. How to Rewrite Video C.B.A. Saved Data

- 1) Select "2.Check [Video]." In the Main menu, and then press the "Enter" key.
- 2) Select "3.Read [Save]/Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- 3) Select "3.Writing from the stored data files" in the Read [Save]/Write All EEPROM data menu, and then press "Enter" key.

- 4) Type the saved file name, and then press the "Enter" key.
- 5) The data can be written in EEPROM (IC2005).

4. C.B.A. REPLACEMENT

4-1. How to Input ID Number

Save the data to the EEPROM (IC2005) after replacing VTR Main C.B.A.

- 1) Select "2.Check [Video]." In the Main menu, and then press the "Enter" key.
- 2) Select "3.Read [Save]/Write All EEPROM data" in the Video check menu, and then press the "Enter" key.
- 3) Select "5.Writing ID from the stored file." In Read [Save]/Write All EEPROM data menu, and then press the "Enter" key. Type the saved file name, and then press the "Enter" key. The ID Number will be written automatically.

Note: The adjusted data has been saved in the EEPROM after each adjustments.

5. CAMERA ADJUSTMENT PROCEDURE

Be sure to save the Camera EEPROM data into the Personal Computer, before performing adjustment.

Perform the all PC-EVR adjustments, by referring to procedures on PC screen.

5-1. Hall Amp Adjustment

(Preparation)

- 1) Connect the Digital Volt Meter to "VREF-H/L" on the VFK1308P.
- 2) Set SW108 to "L" side and measure voltage.
- 3) Set low reference voltage on the PC-EVR screen by up or down keys.
- 4) Set SW108 to "H" side and measure voltage.
- 5) Set high reference voltage on the PC-EVR screen by up or down keys.

(Adjustment-Offset)

- 1) Connect the Digital Volt Meter to "FNO" on the VFK1308P.
- 2) Set SW107 to "CLOSE" side.
- 3) Adjust voltage to be in the specification as shown on screen.

(Adjustment-Gain)

- 1) Set SW107 to "OPEN" side.
- 2) Adjust voltage to be in the specification as shown on screen.

5-2. Iris PWM Adjustment

- 1) Set SW107 to "CENTER" position and automatically open the Iris.
- 2) Connect the Digital Volt Meter to "FNO" on the VFK1308P.
- 3) Adjust voltage to be in the specification as shown on in screen.

Note : Adjustment should be done from lower voltage to higher voltage.

5-3. Linear MR Adjustment

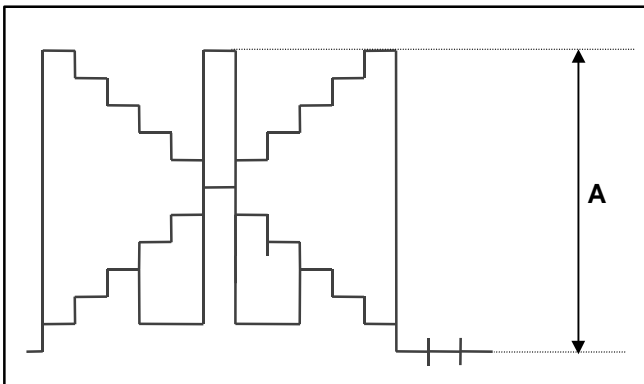
This adjustment is performed automatically.

5-4. Zoom Tracking Adjustment

- 1) Set the Collimator (VFK1164TCM01) on the front of the Lens with the 43mm attachment ring (VFK1164TAR44).
- 2) Set the Tracking chart (hunting chart) on the front of the Collimator. It is included in the VFK1164TCM01.
- 3) Under the Halogen lamp condition, turn the camcorder to dark place (Need to have an Approx.0.2 lux condition).
- 4) Adjustment is performed automatically.
- 5) After complete adjustment, confirm that it is in focus at both the telephoto and wide-angle positions during zoom operations.

5-5. AGC 0dB Adjustment

- 1) Connect the oscilloscope to "CDS/AGC" on the VFK1308P.
- 2) Aim the unit at Gray Scale chart under the halogen lamp condition (3100K, 1400Lux).
- 3) Set the Iris position by arrow keys so that the signal level (A) becomes $300\text{mV} \pm 20\text{mVp-p}$.



Note : Press the F2 key to see figure.

- 4) Connect the oscilloscope to "ADIN" on the VFK1308P.
- 5) Adjust the signal level (A) to become $300\text{mV} \pm 20\text{mVp-p}$.

- 6) Follow the message on the screen and adjust R channel and B channel.

Note : Press the F2 key to see figure.

5-6. AGC 12dB Adjustment

- 1) Connect the oscilloscope to "CDS/AGC" on the VFK1308P.
- 2) Aim the unit at Gray Scale chart under the halogen lamp condition (3100K, 1400Lux).
- 3) Set the Iris position by arrow keys so that the signal level (A) becomes $1200\text{mV} \pm 40\text{mVp-p}$.

Note : Press the F2 key to see figure.

- 4) Connect the oscilloscope to "ADIN" on the VFK1308P.
- 5) Adjust the signal level (A) to become $1200\text{mV} \pm 40\text{mVp-p}$.
- 6) Follow the message on the screen and adjust R channel and B channel.

Note : Press the F2 key to see figure.

5-7. AD Input Level Adjustment

- 1) Connect the oscilloscope to "CDS/AGC" on the VFK1308P.
- 2) Aim the unit at Gray Scale chart under the halogen lamp condition (3100K, 1400Lux).
- 3) Set the Iris position by arrow keys so that the signal level (A) becomes $1230\text{mV} \pm 20\text{mVp-p}$.

Note : Press the F2 key to see figure.

- 4) Connect the oscilloscope to "ADIN" on the VFK1308P.
- 5) Adjust the signal level (A) to become $1230\text{mV} \pm 20\text{mVp-p}$.
- 6) Follow the message on the screen and adjust R channel and B channel.

Note : Press the F2 key to see figure.

5-8. ALC Adjustment

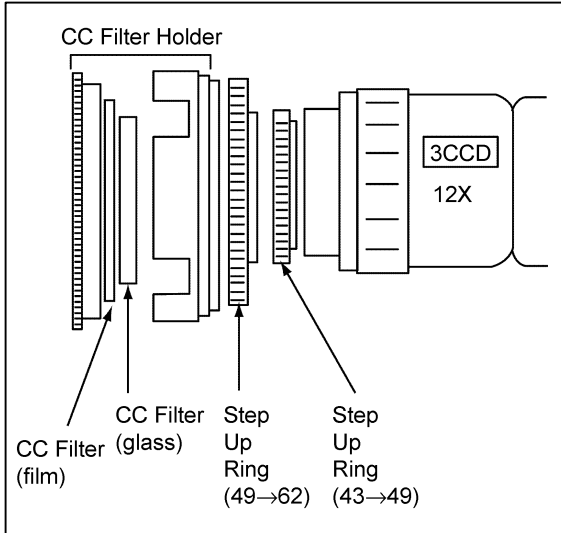
- 1) Connect the oscilloscope to "ADIN" on the VFK1308P.
- 2) Aim the unit at Gray Scale chart under the Halogen lamp condition (3100K, 1400Lux).
- 3) Adjust the signal level (A) becomes $1270\text{mV} \pm 20\text{mV}$.

Note : Press the F2 key to see figure.

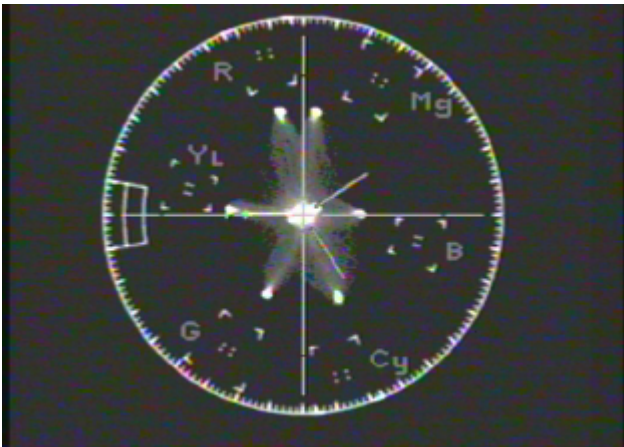
5-9. White Balance Adjustment

5-9-1. Indoor (3100K)WB Adjustment

- 1) Aim the unit at White Chart under the Halogen lamp condition (3100K, 1400Lux).



- 2) Set the Color Conversion filters (LB80 : VFK1342, LBA8 : VFK1696) on the front of lens with CC Filter holder (VFK1345) and the two Step Up Rings (VFK1659, VFK1660)
- 3) White balance adjustment is performed automatically.
- 4) Aim the unit at Color Chip Chart (YWV2100RB98).
- 5) Adjust R/G Gain, R/G Phase, B/G Gain and B/G Phase manually so that the Red and Yellow vector position becomes same as the standard vector figure as follows.



5-9-2. Outdoor (5100K)WB Adjustment

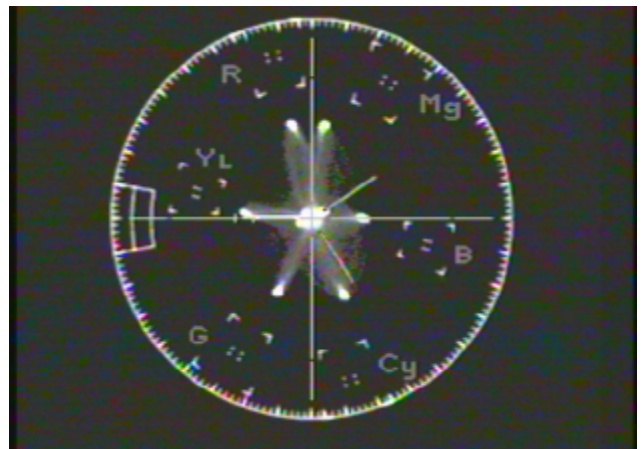
- 1) Set the Color Conversion filters (LB120:VFK1347, LBB4 : VFK1697) on the front of lens with CC Filter holder (VFK1345) and the two Step Up Rings (VFK1659, VFK1660).

- 2) White balance adjustment is performed automatically.
- 3) Aim the Color Chip Chart (YWV2100RB98).
- 4) Adjust R/G Gain, R/G Phase, B/G Gain and B/G Phase manually so that the Red and Yellow vector position becomes same as the standard vector figure as follows.



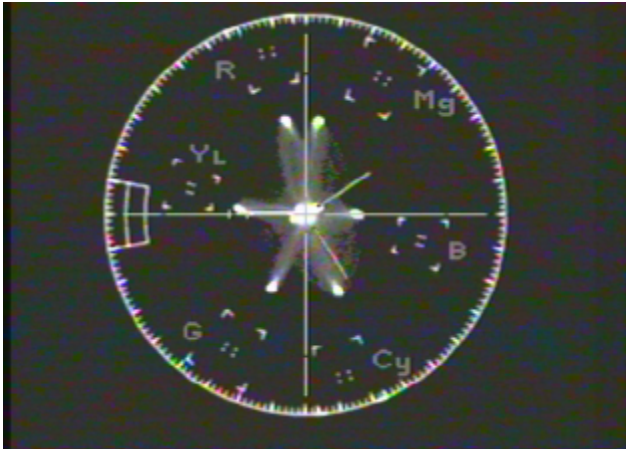
5-9-3. Cool White (4500K)WB Adjustment

- 1) Set the Color Conversion filters (LB120:VFK1347, LBA8 : VFK1696) on the front of lens with CC Filter holder (VFK1345) and the two Step Up Rings (VFK1659, VFK1660).
- 2) White balance adjustment is performed automatically.
- 3) Aim the unit at Color Chip Chart (YWV2100RB98).
- 4) Adjust R/G Gain, R/G Phase, B/G Gain and B/G Phase manually so that the Red and Yellow vector position becomes same as the standard vector figure as follows.



5-9-4. Warm White (2800K)WB Adjustment

- 1) Set the Color Conversion filters (LB40:VFK1341, LBA4 : VFK1695) on the front of lens with CC Filter holder (VFK1345) and the two Step Up Rings (VFK1659, VFK1660).
- 2) White balance adjustment is performed automatically.
- 3) Aim the unit at Color Chip Chart (YWV2100RB98).
- 4) Adjust R/G Gain, R/G Phase, B/G Gain and B/G Phase manually so that the Red and Yellow vector position becomes same as the standard vector figure as follows.



5-9-5. Indoor WB Data Measurement

- 1) Aim the unit at White Chart under the Halogen lamp condition (3100K, 1400Lux) with CC Filters (LB80 : VFK1342, LBA8 : VFK1696).
- 2) White balance data measurement is preloaded automatically.

5-9-6. Outdoor WB Data Measurement

- 1) Aim the unit at White Chart under the Halogen lamp condition with CC Filters (LB120 : VFK1347, LBB4 : VFK1697).
- 2) White balance data measurement is preloaded automatically.

5-9-7. Cool WB Data Measurement

- 1) Aim the unit at White Chart under the Halogen lamp condition with CC Filters (LB120 : VFK1347, LBA8 : VFK1696).
- 2) White balance data measurement is preloaded automatically.

5-9-8. Warm WB Data Measurement

- 1) Aim the unit at White Chart under the Halogen lamp condition with CC Filters (LB40 : VFK1341, LBA4 : VFK1695).

- 2) White balance data measurement is preloaded automatically.

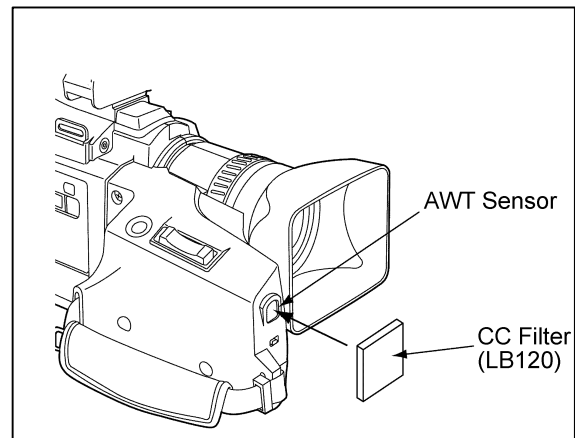
5-10. AWT Sensor Adjustment

5-10-1. AWT Sensor Offset Adjustment

- 1) Aim the unit at White Chart under the Halogen lamp condition without the CC Filter.
- 2) Adjustment is performed automatically.

5-10-2. AWT Sensor Normalize

- 1) Aim the unit at White Chart under the Halogen lamp condition.
- 2) Cover the CC Filter (LB120:VFK1347) on the front of the AWT Sensor.



- 3) Adjustment is performed automatically.

6. VIDEO ADJUSTMENT

6-1. Sensitivity Adjustment

- 1) Set the Camera/VCR switcher to "Camera" position.
- 2) Insert the Tape End/Beg. Sensor Cassette (VFK1217) into the Unit.
- 3) Press Enter key to perform adjustment automatically.

6-2. Luminance Level Adjustment

- 1) Connect the Oscilloscope to the Video Output with 75 ohm terminate.
- 2) Adjust the Y level to become $714 \pm 10\text{mV}$ as shown figure.

Note: Press the F2 Key to see figure.

6-3. Color Level Adjustment

- 1) Connect the Oscilloscope to the Video Output with 75 ohm terminate.
- 2) Adjust the Burst level to become $286 \pm 20\text{mV}$ as shown in figure.

Note: Press the F2 Key to see figure.

6-4. Video VCO Adjustment

- 1) Connect the Frequency counter to "VCO" on the VFK1308P.
- 2) Adjust the VCO frequency to become $41.85\text{MHz} \pm 200\text{KHz}$.

6-5. PG Shifter Adjustment

- 1) Insert the Color Bar Alignment tape (VFM3010EDS) into the Unit.
- 2) Adjustment is performed automatically.

6-6. RF.VITERBI Adjustment

- 1) Insert the self-recorded tape into the Unit.
- 2) Press TAB Key to start the Automatic adjustment.

7. EVF ADJUSTMENT

7-1. PLL Adjustment (Normal)

- 1) Connect the oscilloscope to "MON-PLL" on the VFK1308P.
- 2) Adjust the width (T) to become $1.8 \pm 0.1 \mu\text{sec}$ as shown in figure when press the F2 Key.

7-2. PLL Adjustment (Wide)

- 1) Connect the oscilloscope to "MON-PLL" on the VFK1308P.
- 2) Adjust the width (T) to become $2.3 \pm 0.1 \mu\text{sec}$ as shown in figure when press the F2 Key.

7-3. Pedestal Level Adjustment

- 1) Connect the oscilloscope to "MON-G" on the VFK1308P.
- 2) Adjust the pedestal level to become $4.1 \pm 0.1\text{V}$ as shown in figure when press the F2 Key.

7-4. Pedestal Level Adjustment

- 1) Connect the oscilloscope to "MON-G" on the VFK1308P.
- 2) Adjust level to become $3.4 \pm 0.1\text{V}$ as shown in figure when press the F2 Key.

7-5. Gamma Level Adjustment

- 1) Connect the oscilloscope to "MON-G" on the VFK1308P.
- 2) Adjust V level to become $2.1 \pm 0.1\text{V}$ as shown in figure when press the F2 Key.

7-6. Color Level Adjustment

- 1) Connect the oscilloscope to "MON-B" on the VFK1308P.
- 2) Adjust V level to become $0.4 \pm 0.1\text{V}$ as shown in figure when press the F2 Key.

7-7. White Balance Adjustment

- 1) Set the Lens Cap on front of the Lens.
- 2) Connect the Video out to the monitor TV.
- 3) Compare the white level between the EVF and the Monitor TV. If there is a big difference so that white level (Phase) becomes almost same.

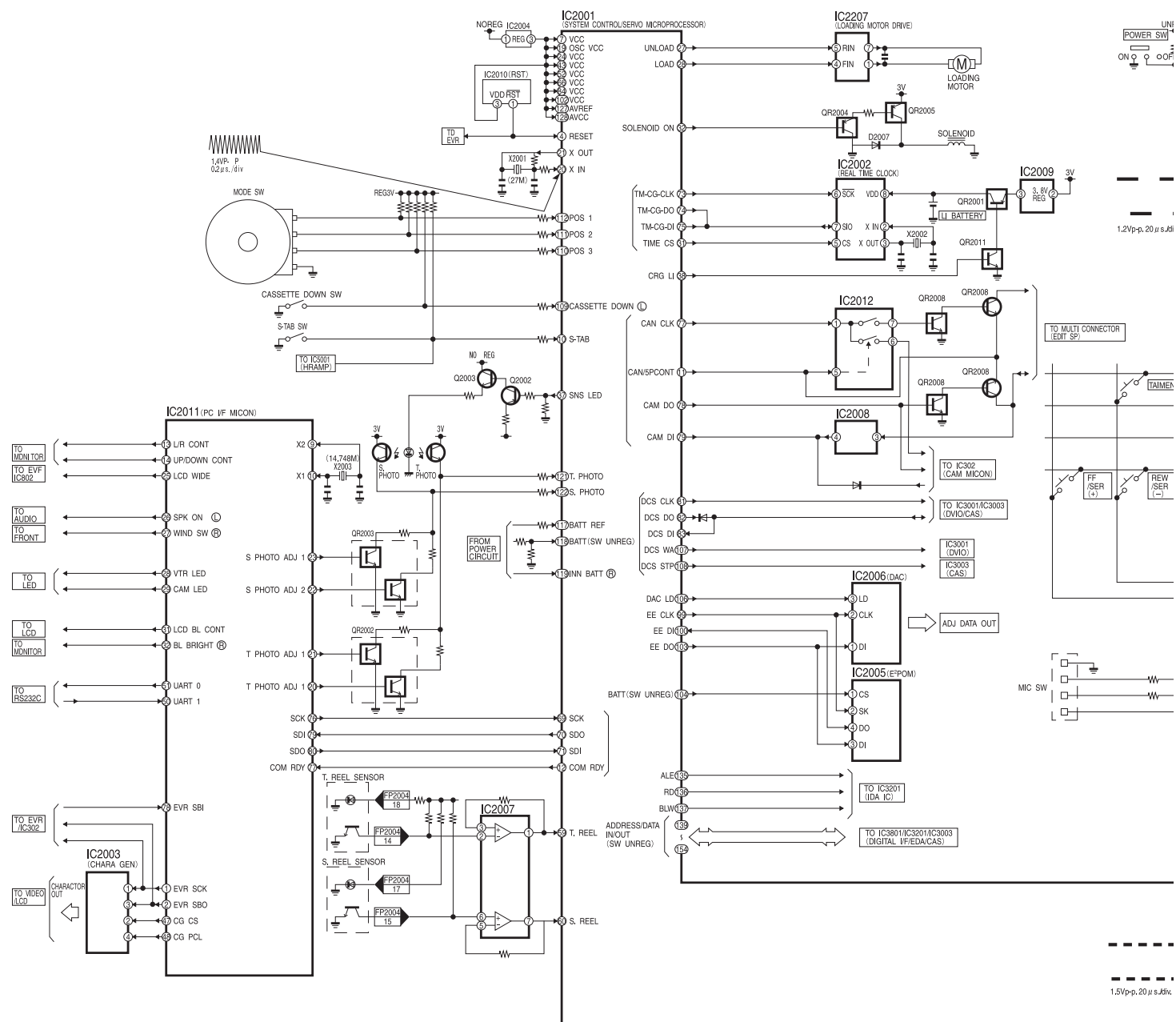
SECTION 5

BLOCK DIAGRAM

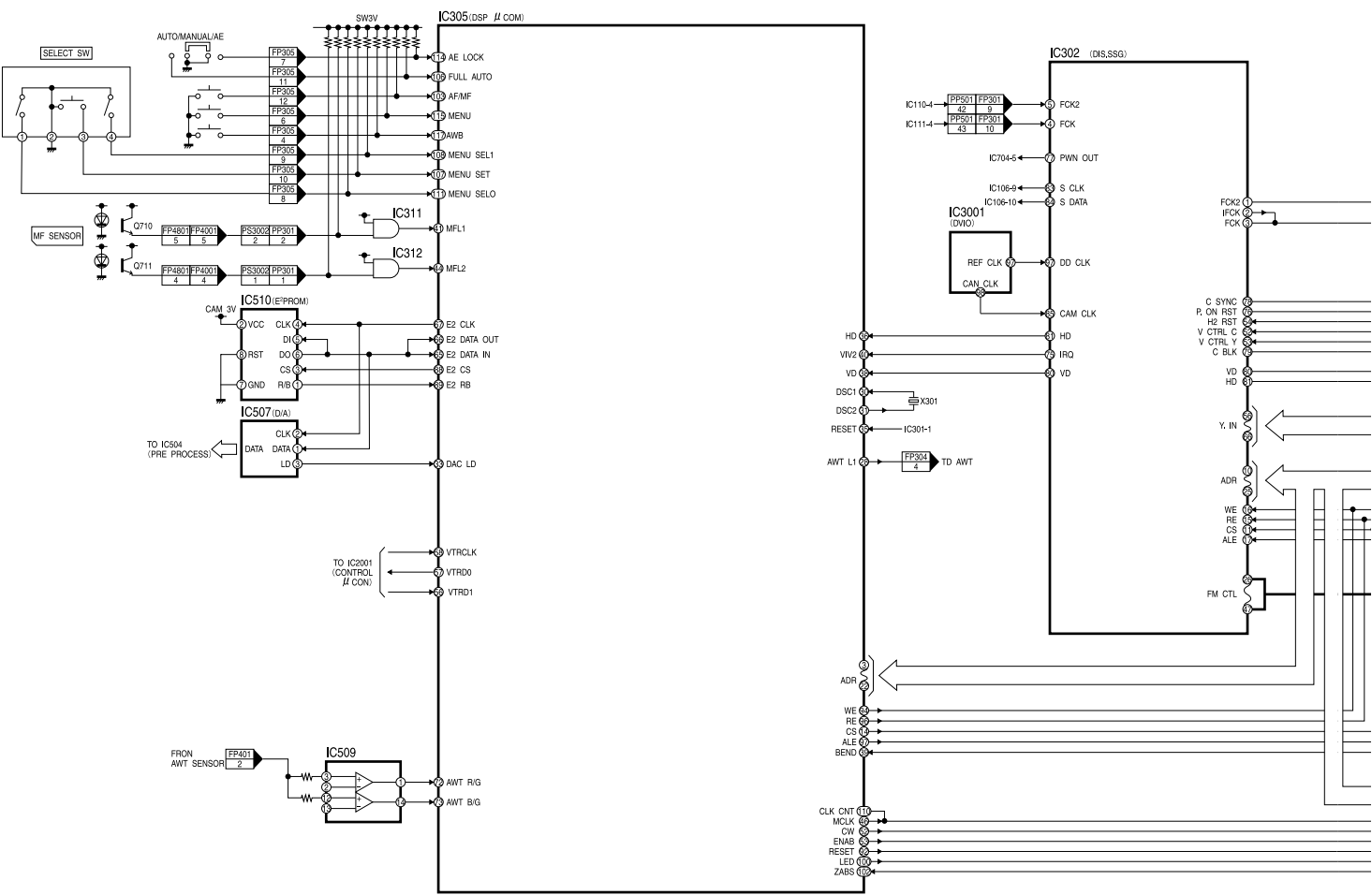
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SYSTEM CONTROL & SERVO BLOCK DIAGRAM	BLK-1
PROCESS BLOCK DIAGRAM	BLK-3
CCD DRIVE BLOCK DIAGRAM.....	BLK-5
VIDEO BLOCK DIAGRAM.....	BLK-7

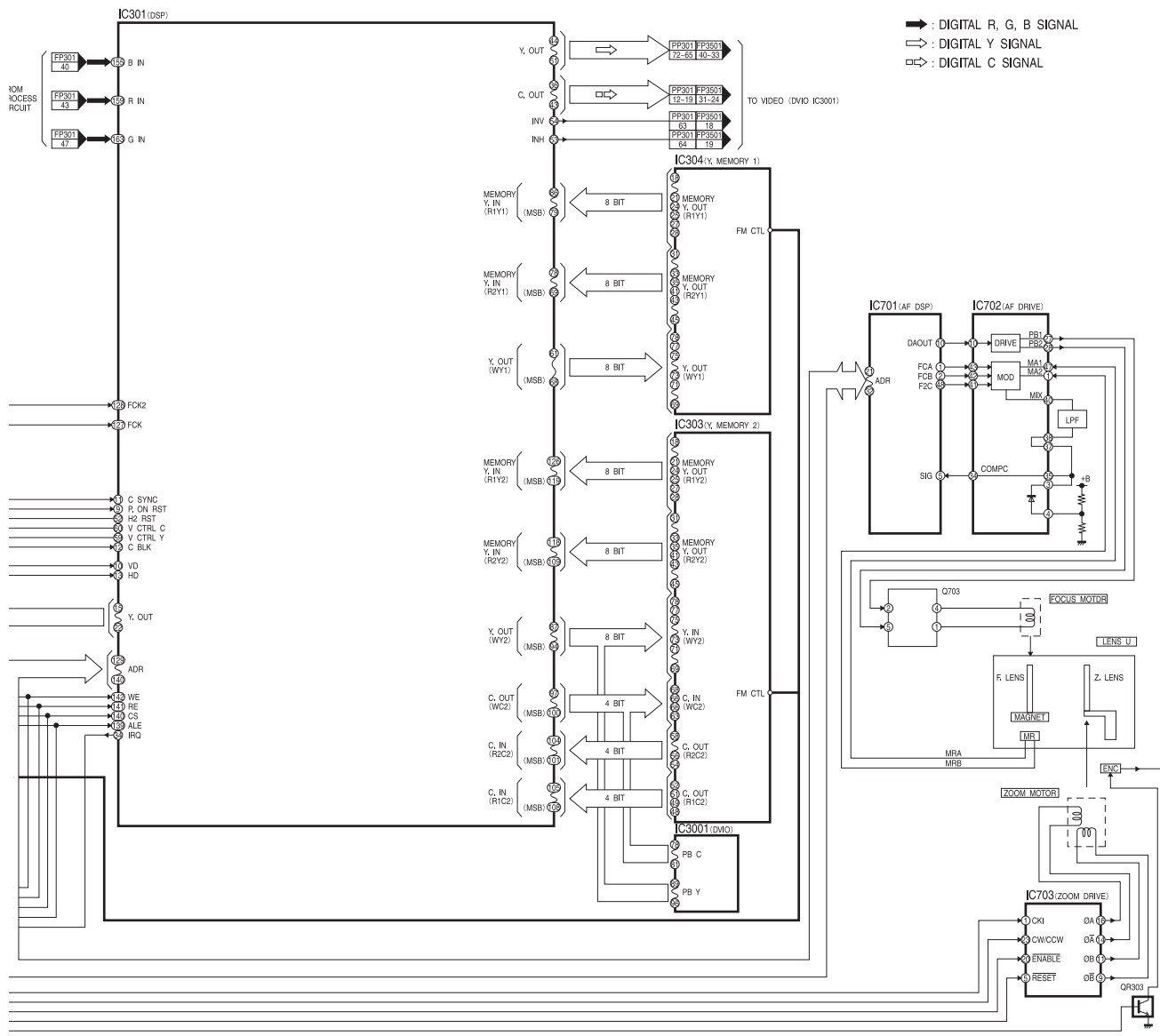
SYSTEM CONTROL & SERVO BLOCK DIAGRAM



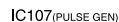
PROCESS BLOCK DIAGRAM

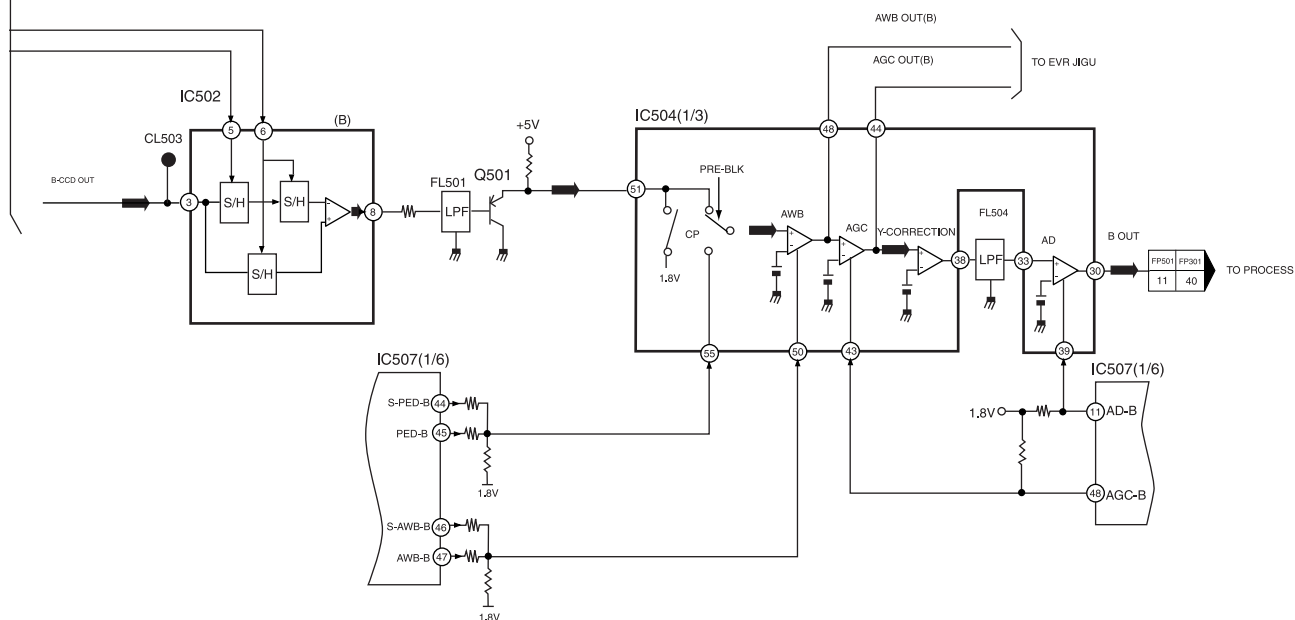


FROM
PROCESS
CIRCUIT

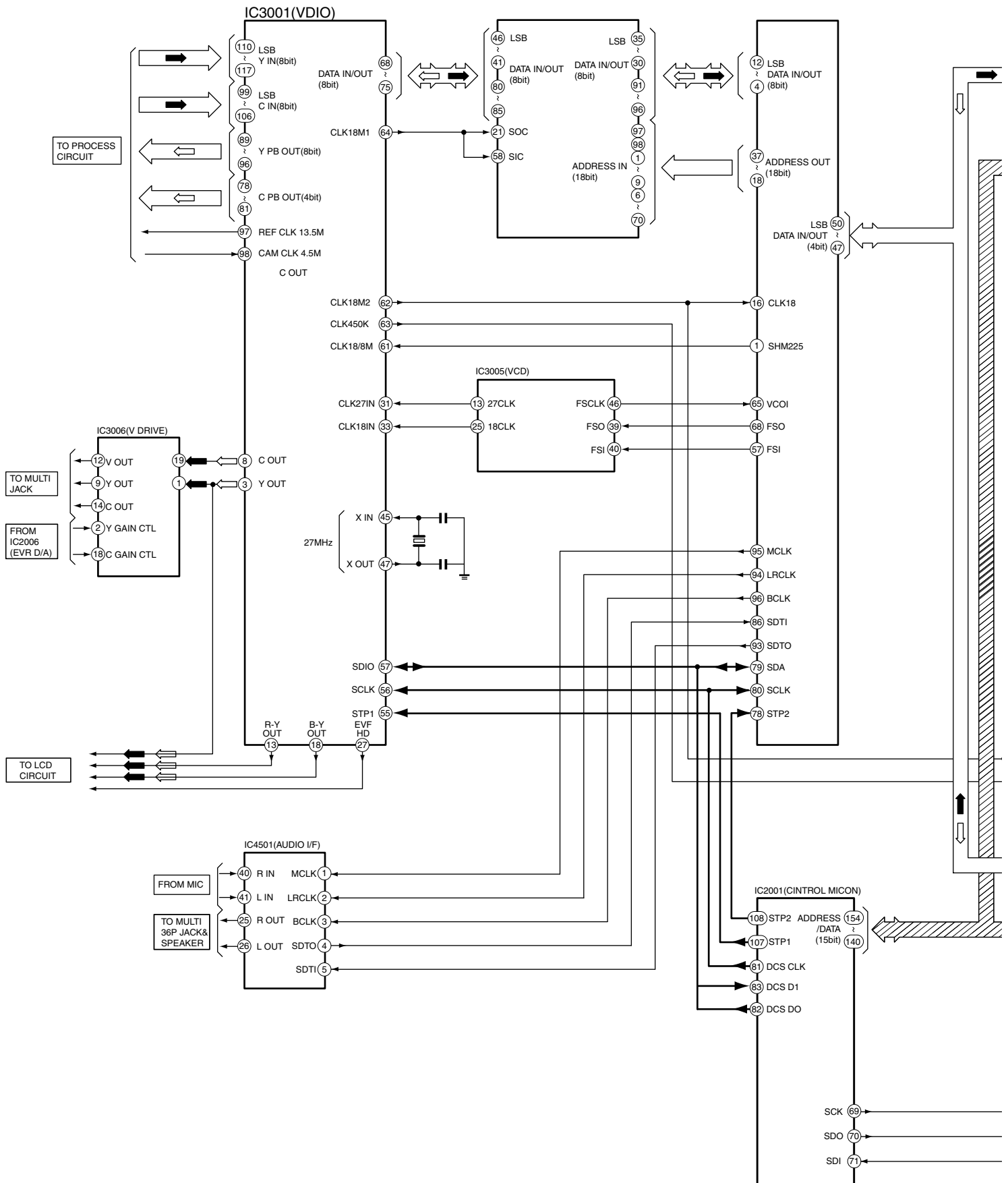


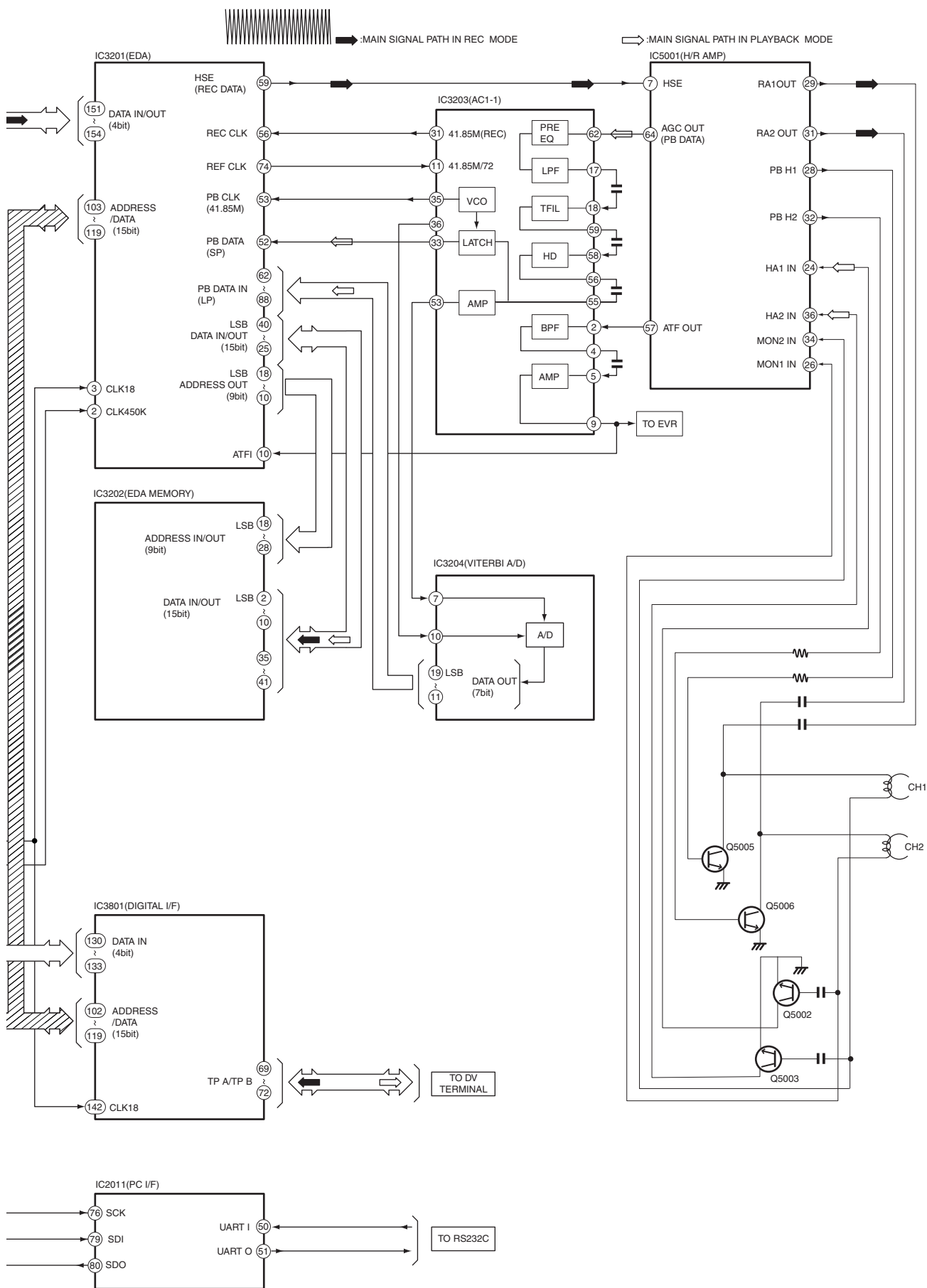
CCD DRIVE BLOCK DIAGRAM



**BLK-6**

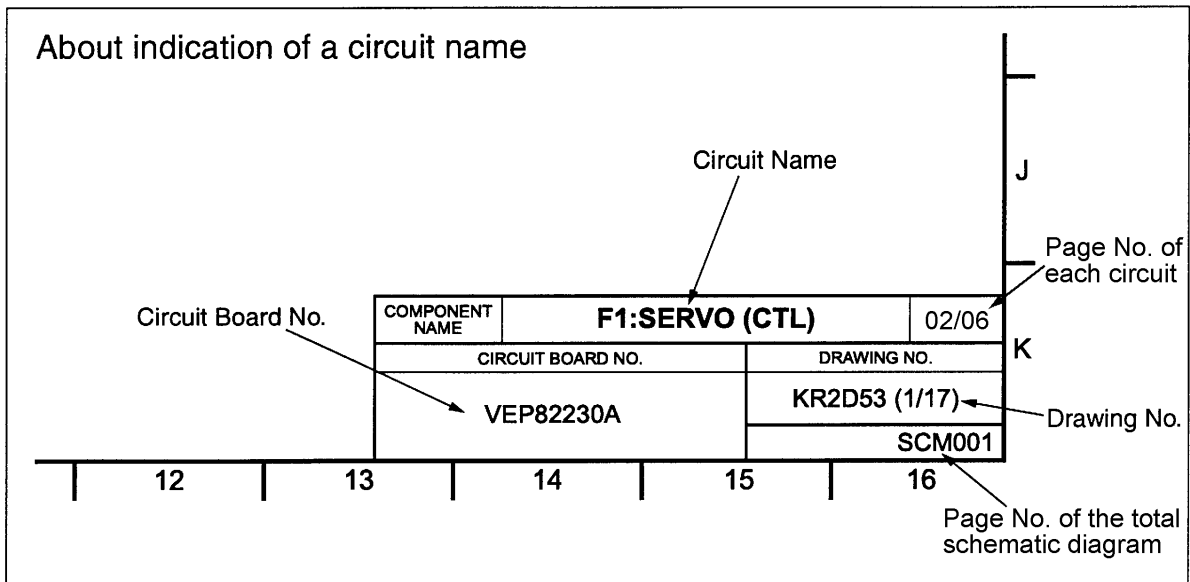
VIDEO BLOCK DIAGRAM





SECTION 6

SCHEMATIC DIAGRAMS




NOTE:

BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 8

CAUTION

THE [] MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

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JACK SCM9

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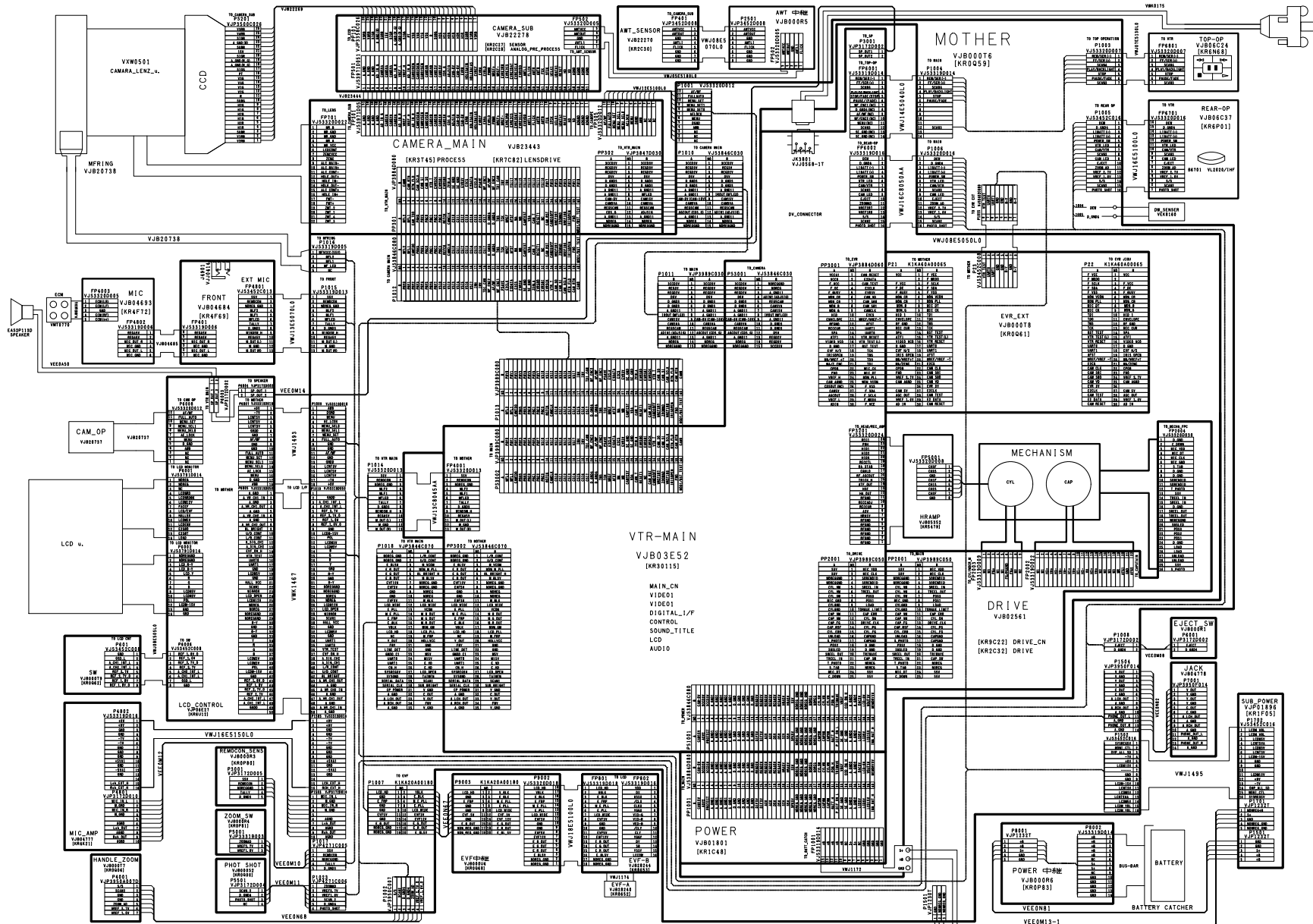
SUB POWER

SUB POWER (1/2)..... SCM30

SUB POWER (2/2)..... SCM31

SW

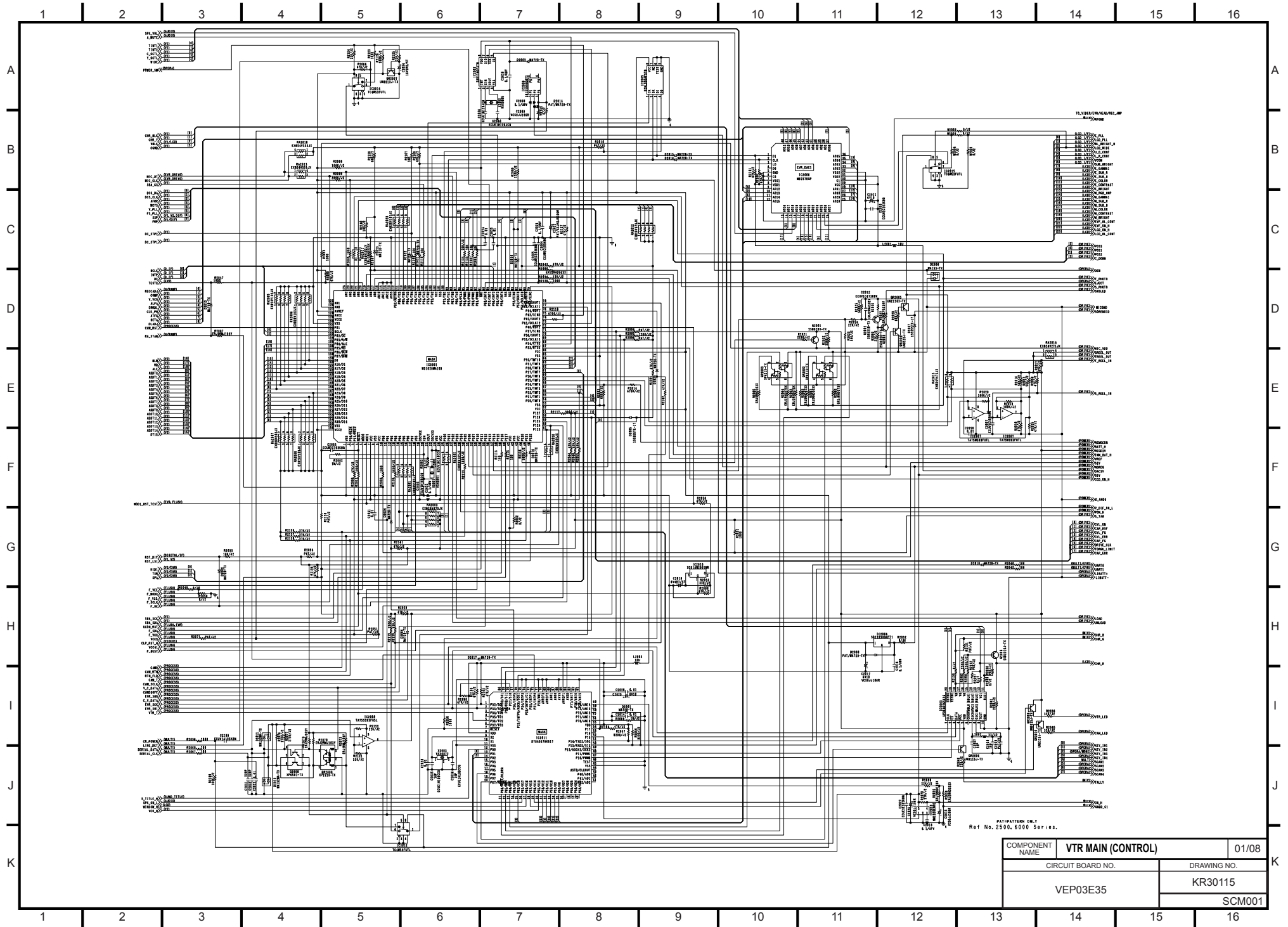
SW SCM32



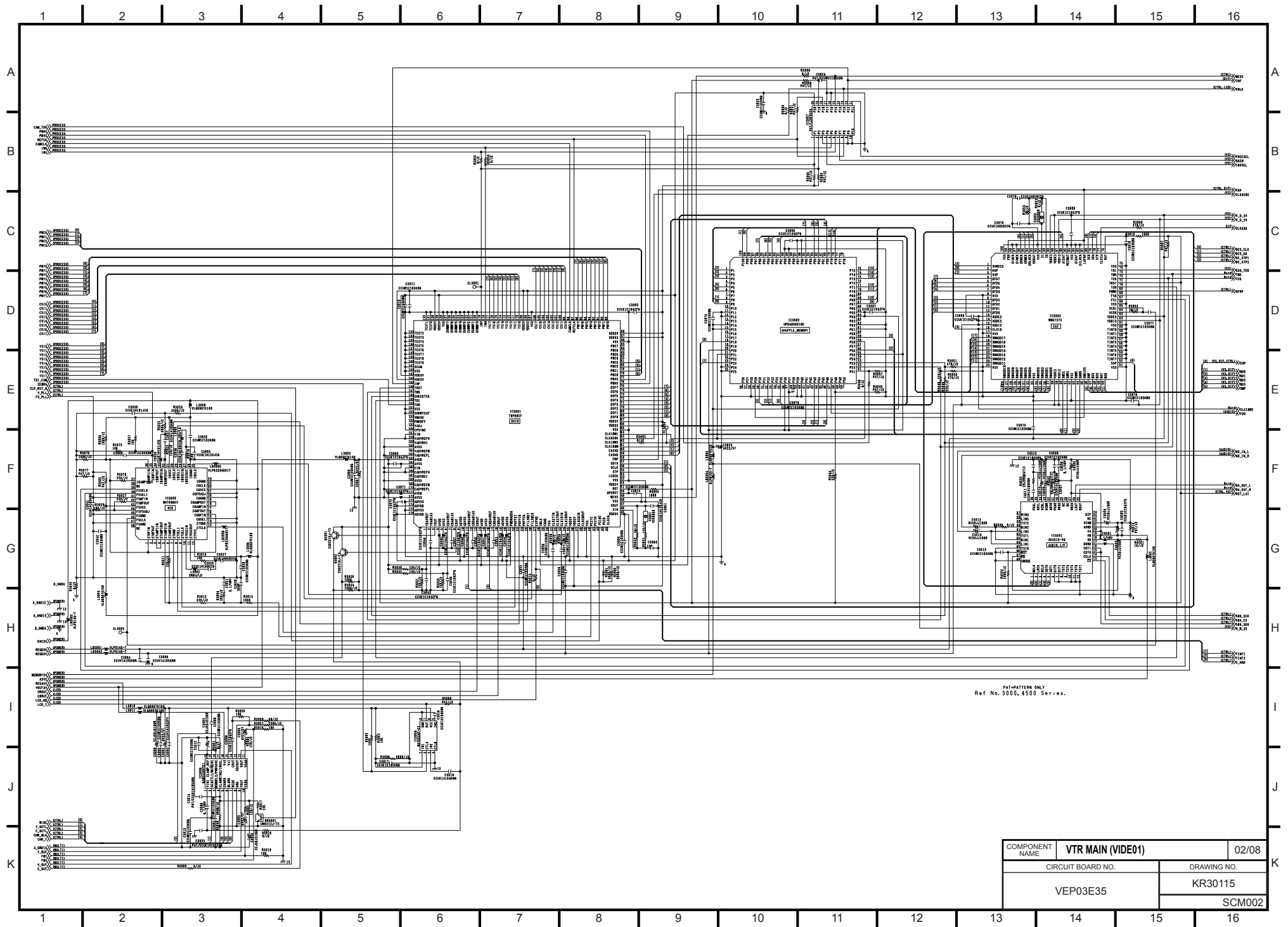
COMPONENT NAME		INTERCONNECTION		01/01
CIRCUIT BOARD NO.		DRAWING NO.		
		KR9H76		
		SCM000		

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

A
B
C
D
E
F
G
H
I
J

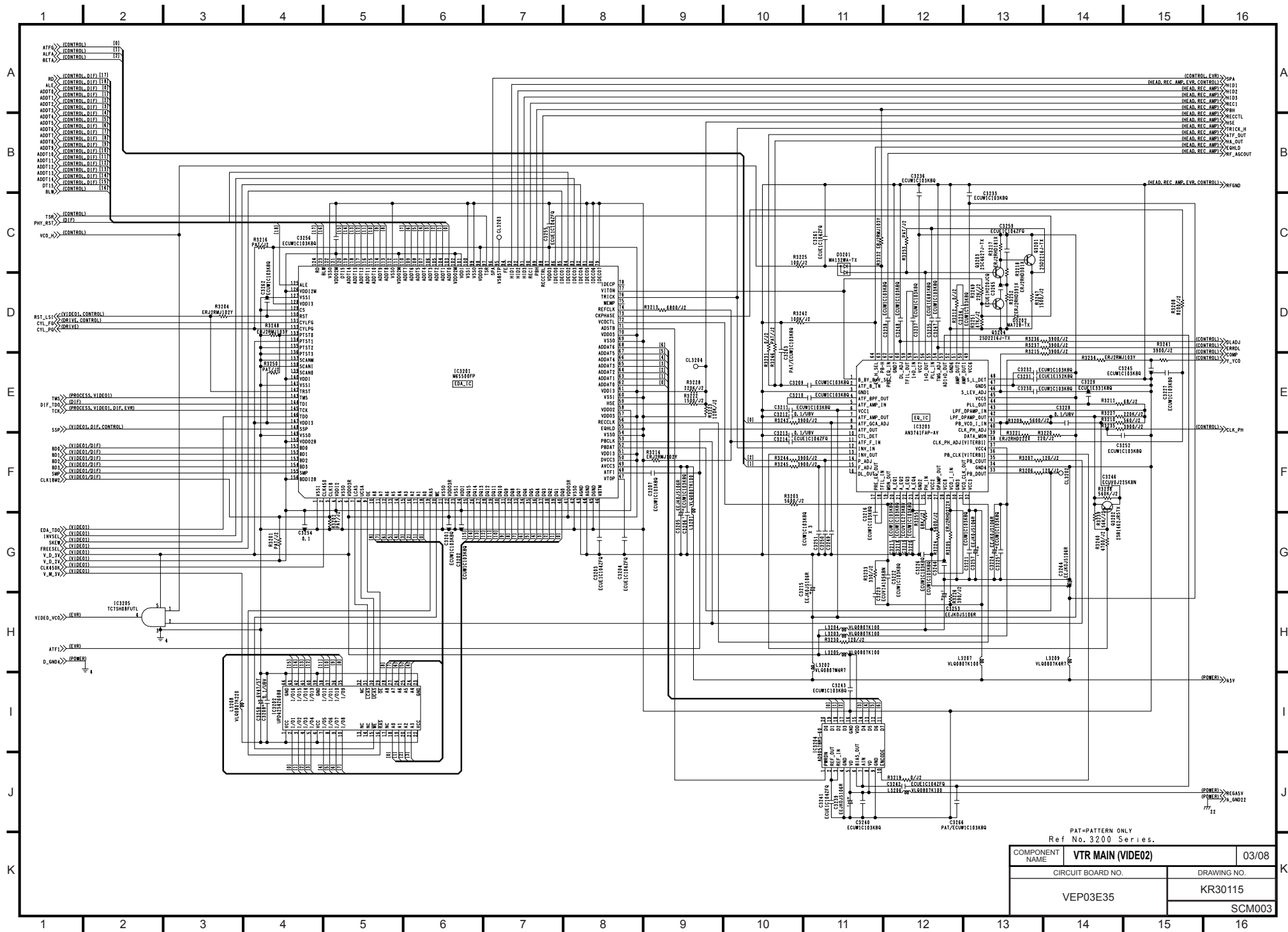


COMPONENT NAME	VTR MAIN (CONTROL)	01/08
CIRCUIT BOARD NO.	VEP03E35	DRAWING NO.
		KR30115
		SCM001

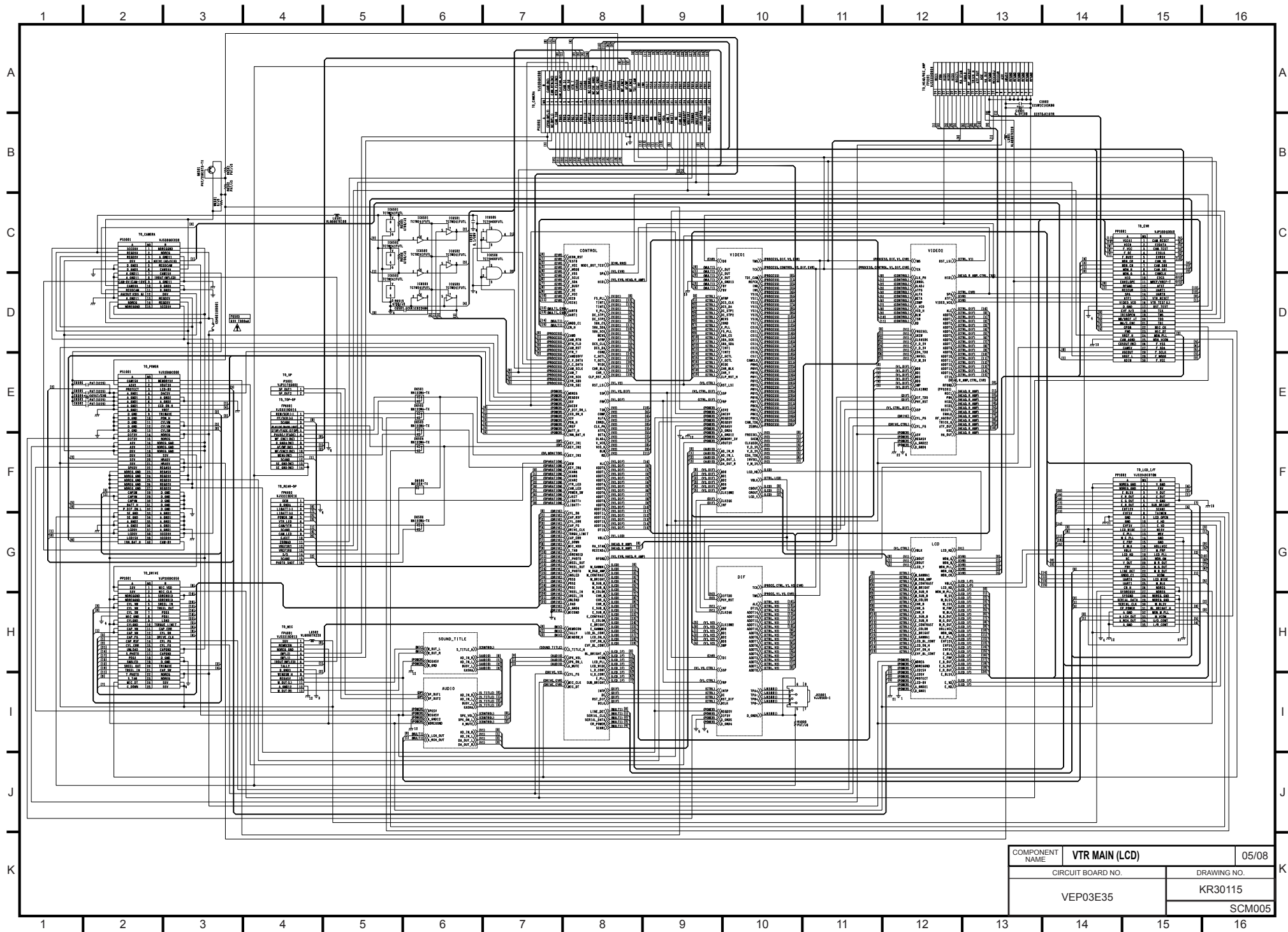


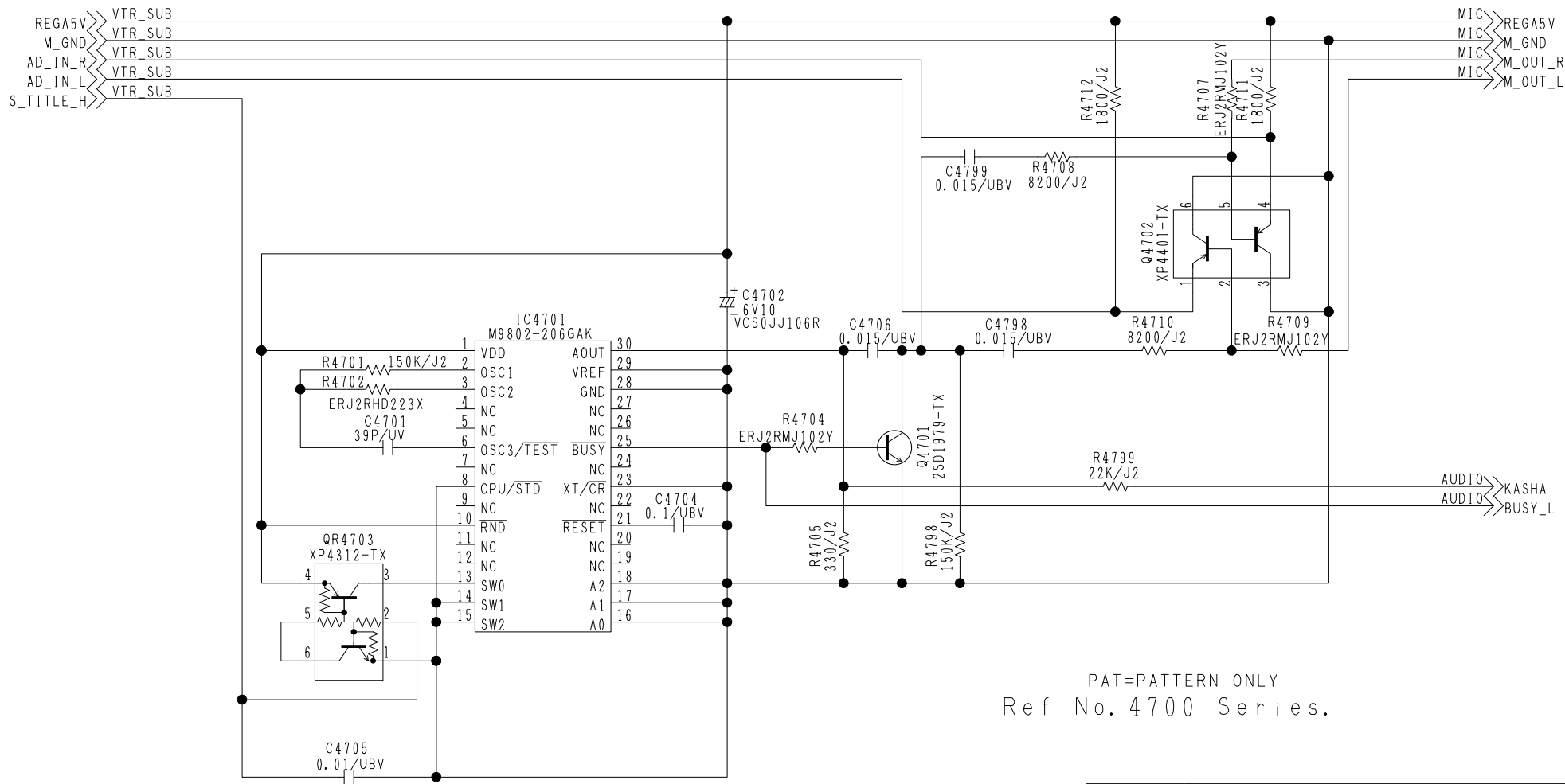
PAT.PATTERN ONLY
Ref No. 3000, 4500 Series.

COMPONENT NAME	VTR MAIN (VIDEO)	02/08
CIRCUIT BOARD NO.	VEP03E35	DRAWING NO.
		KR30115
		SCM002



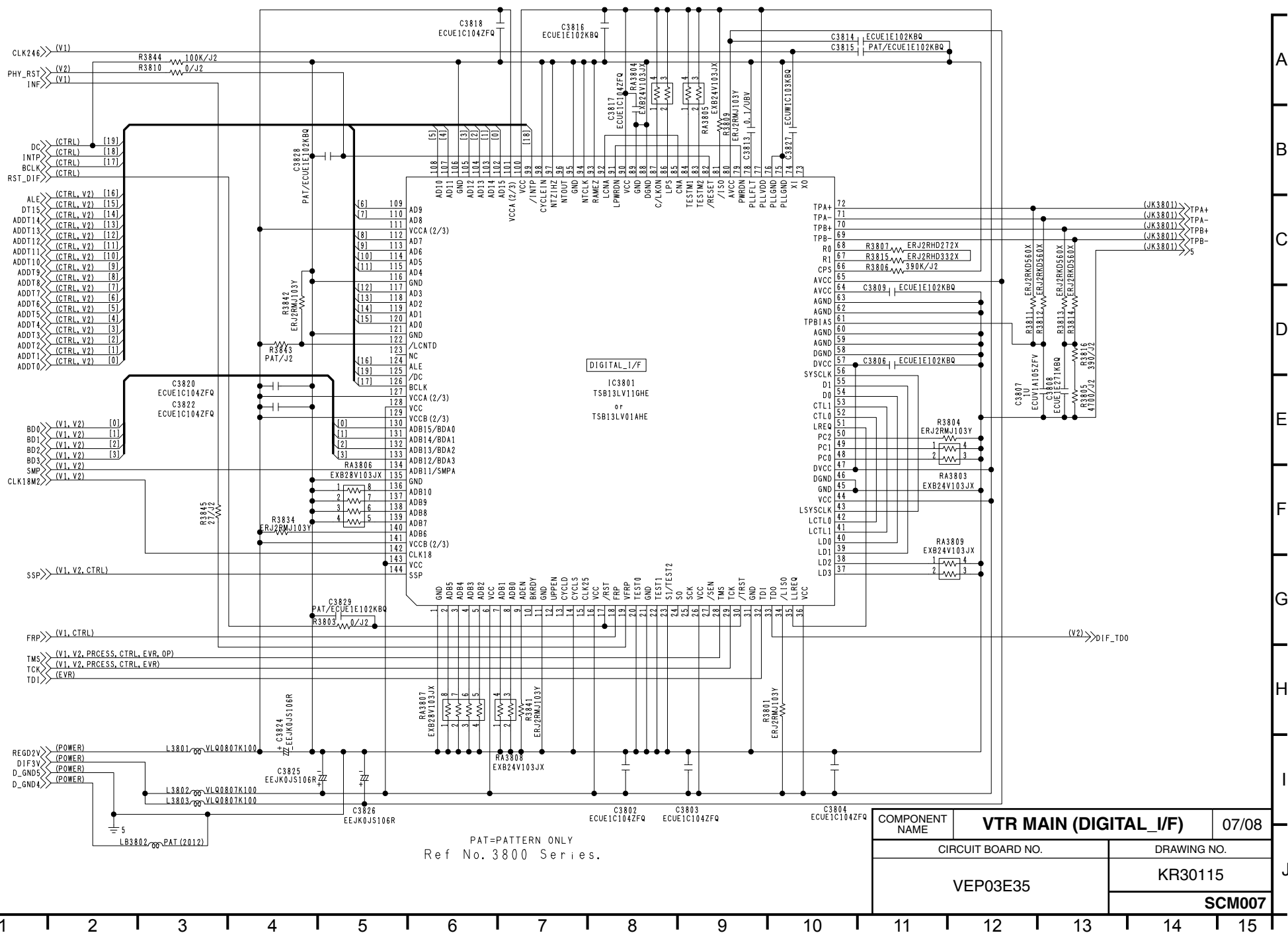
COMPONENT NAME		VTR MAIN (VIDEO2)	03/08
CIRCUIT BOARD NO.		DRAWING NO.	
VEP03E35		KR30115	
		SCM003	

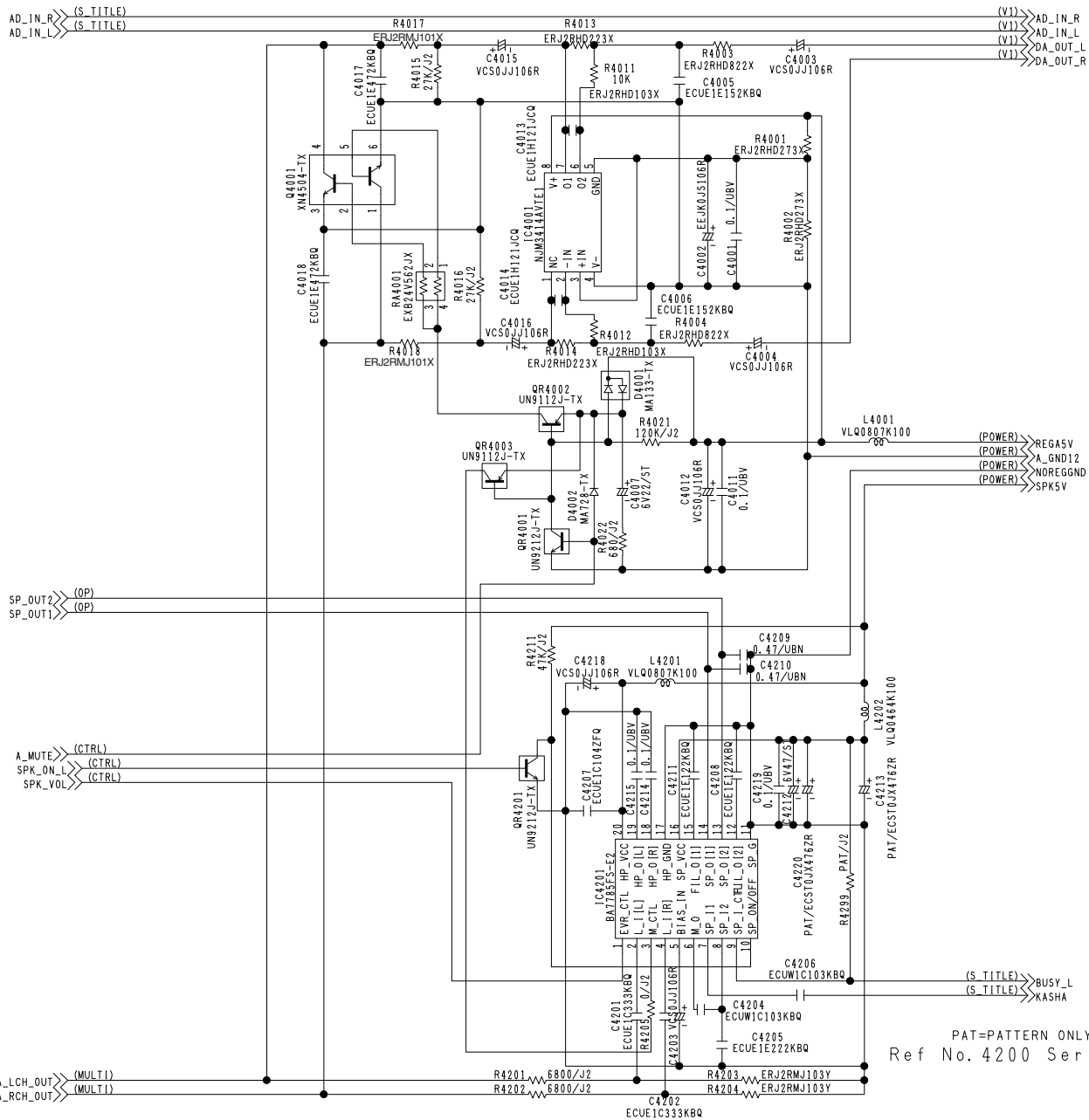




PAT=PATTERN ONLY
Ref No. 4700 Series.

COMPONENT NAME	VTR MAIN (SOUND TITLE)	06/08
CIRCUIT BOARD NO.		DRAWING NO.
VEP03E35		KR30115
		SCM006





COMPONENT NAME	VTR MAIN (AUDIO)		08/08
CIRCUIT BOARD NO.		DRAWING NO.	
VEP03E35		KR30115	
		SCM008	

A

B

C

D

E

F

G

H

I

J

A

B

C

D

E

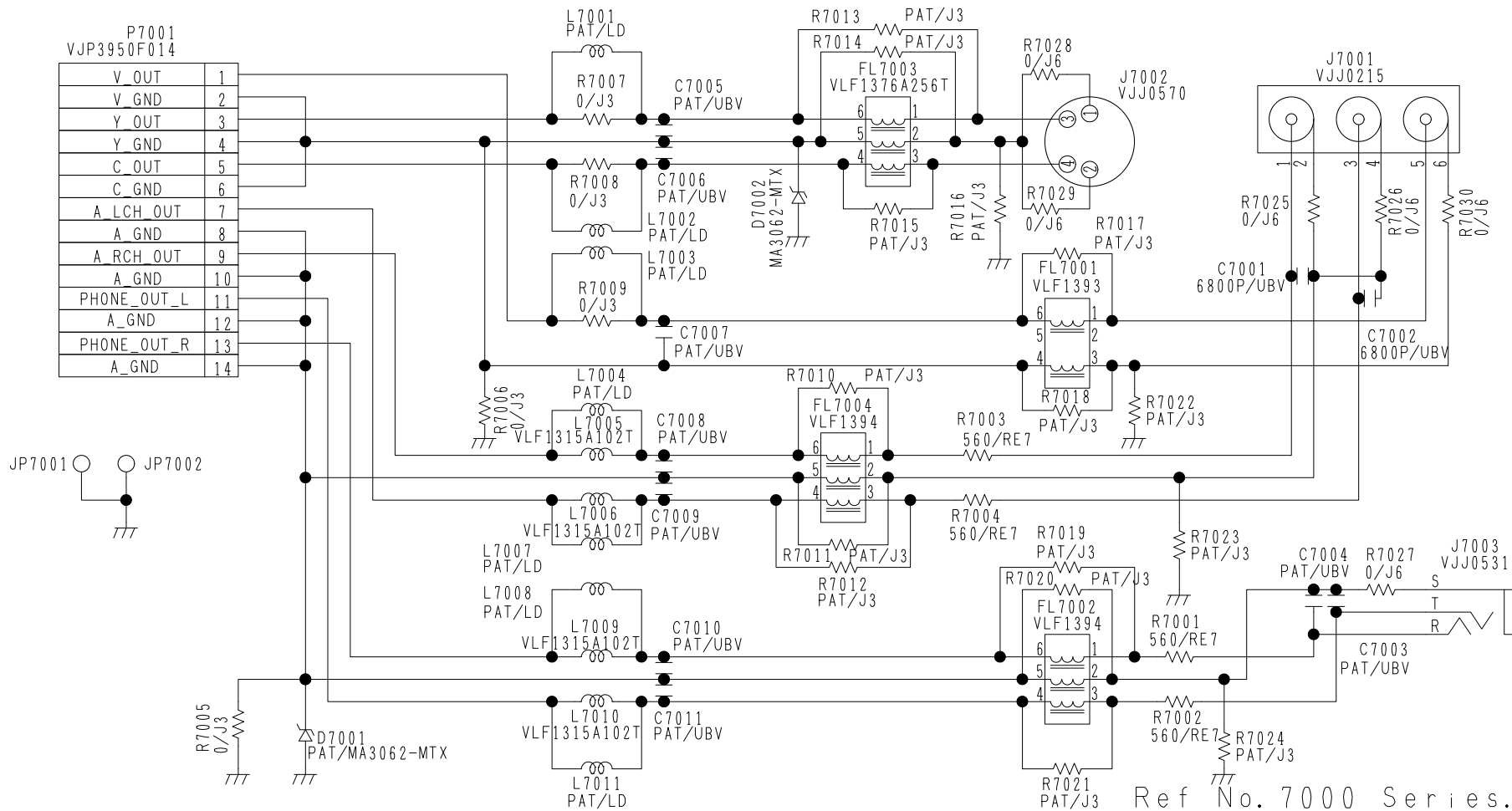
F

G

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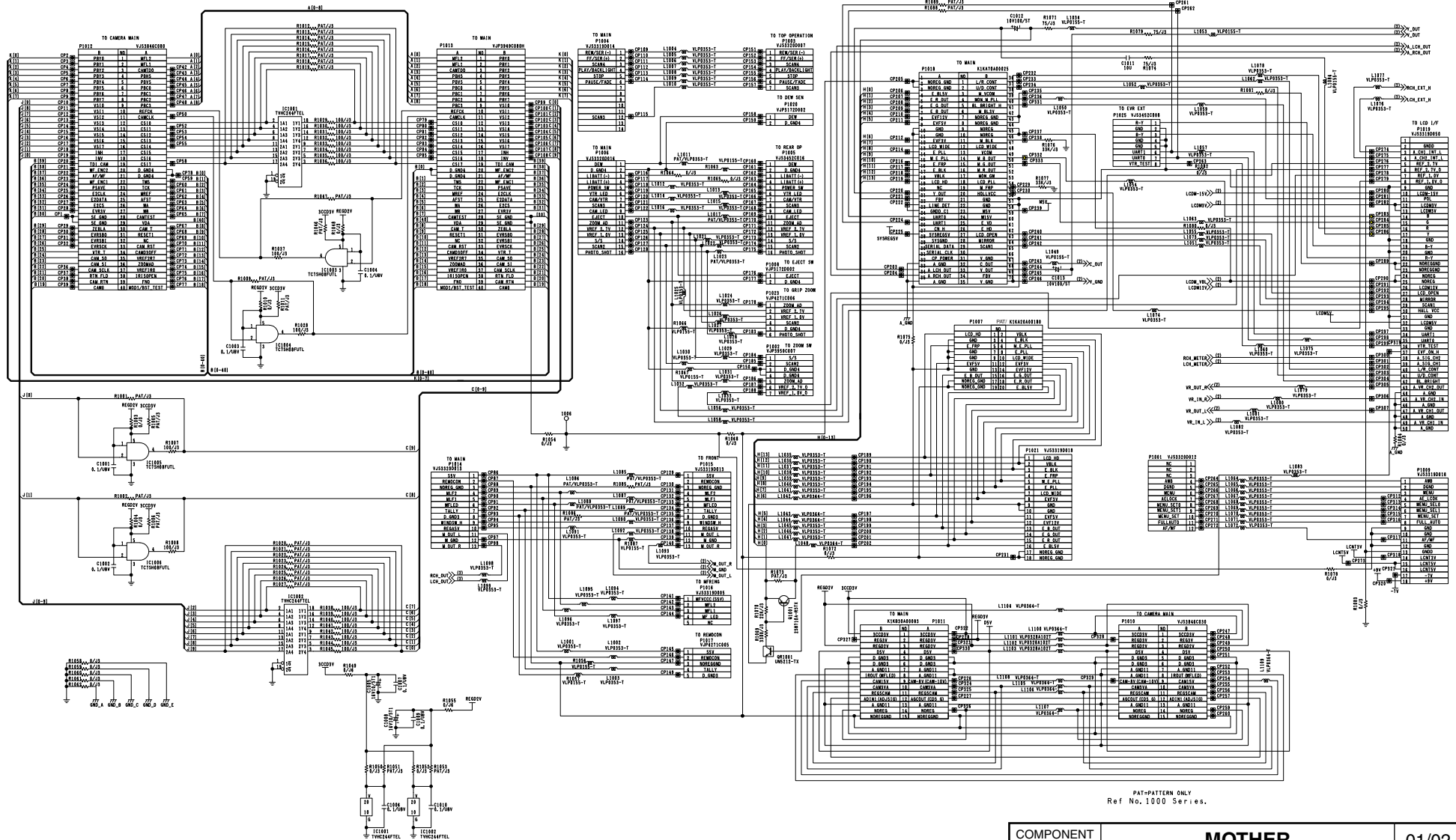
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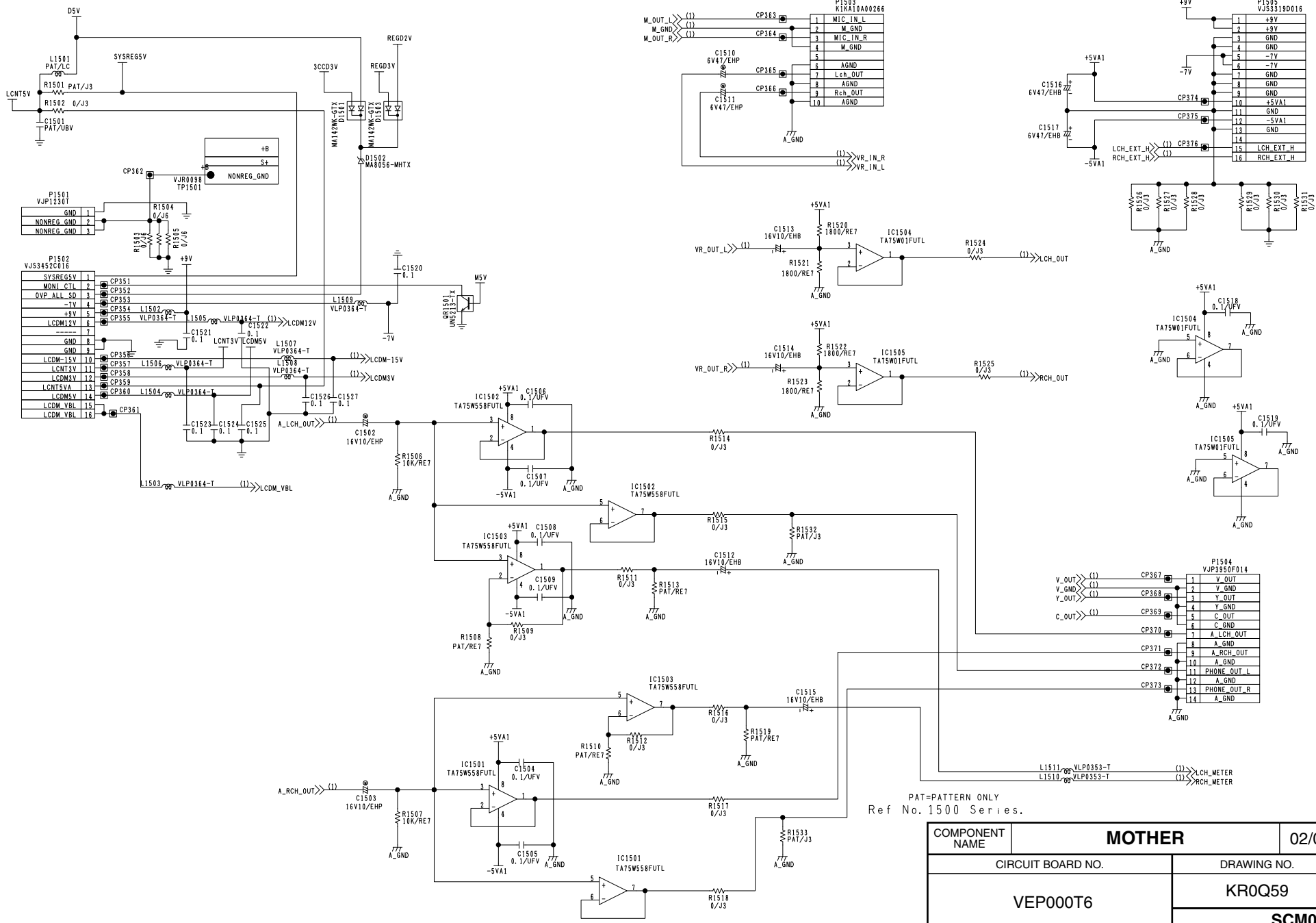


COMPONENT NAME	JACK	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04778	KR4K22	
	SCM009	

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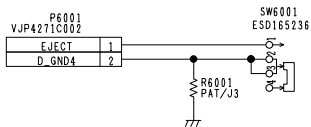
COMPONENT NAME	MOTHER	01/02
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000T6	KROQ59	
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PAT= PATTERN ONLY
Ref No. 1500 Series.

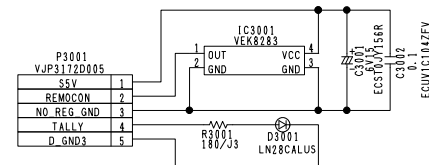
COMPONENT NAME	MOTHER	02/02
CIRCUIT BOARD NO.	VEP000T6	DRAWING NO.
		KROQ59
		SCM011

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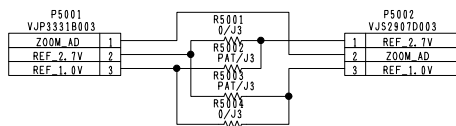
Ref No. 5500 Series.

COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000R1	KR0P78	
	SCM012	



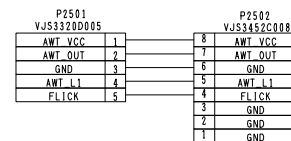
Ref No. 3000 Series.

COMPONENT NAME	REMOCON	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000R3	KR0Q59	
	SCM012	



Ref No. 5000 Series.

COMPONENT NAME	ZOOM_SW	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000R4	KR0P81	
	SCM012	



Ref No. 2500 Series.

COMPONENT NAME	AWT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000R5	KR0P82	
	SCM012	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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P2001 VJS3319D050		
NC		50
NC		49
NC		48
NC		47
NC		46
NC		45
NC		44
NC		43
NC		42
NC		41
NC		40
NC		39
NC		38
NC		37
NC		36
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NC		16
NC		15
NC		14
NC		13
NC		12
NC		11
NC		10
AWB		9
D_GND		8
MENU		7
AE_LOCK		6
MENU_SEL0		5
MENU_SEL1		4
MENU_SET		3
FULL_AUTO		2
AF/MF		1

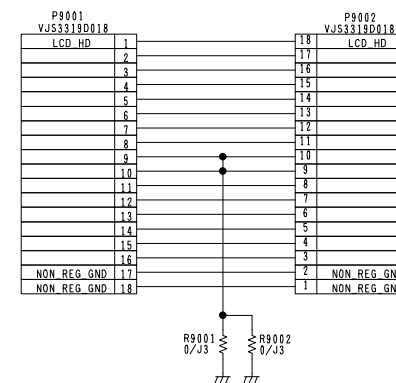


P2004 VJP3172D002		
SP_OUT_1	1	
SP_OUT_2	2	

P2006 VJS3319D012		
1	NC	
2	NC	
3	NC	
4	AWB	
5	D_GND	
6	MENU	
7	AE_LOCK	
8	MENU_SEL0	
9	MENU_SEL1	
10	MENU_SET	
11	FULL_AUTO	
12	AF/MF	

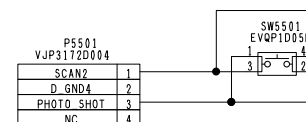
Ref No. 2000 Series.

COMPONENT NAME	LCD	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000R7	KR0P84	
	SCM013	



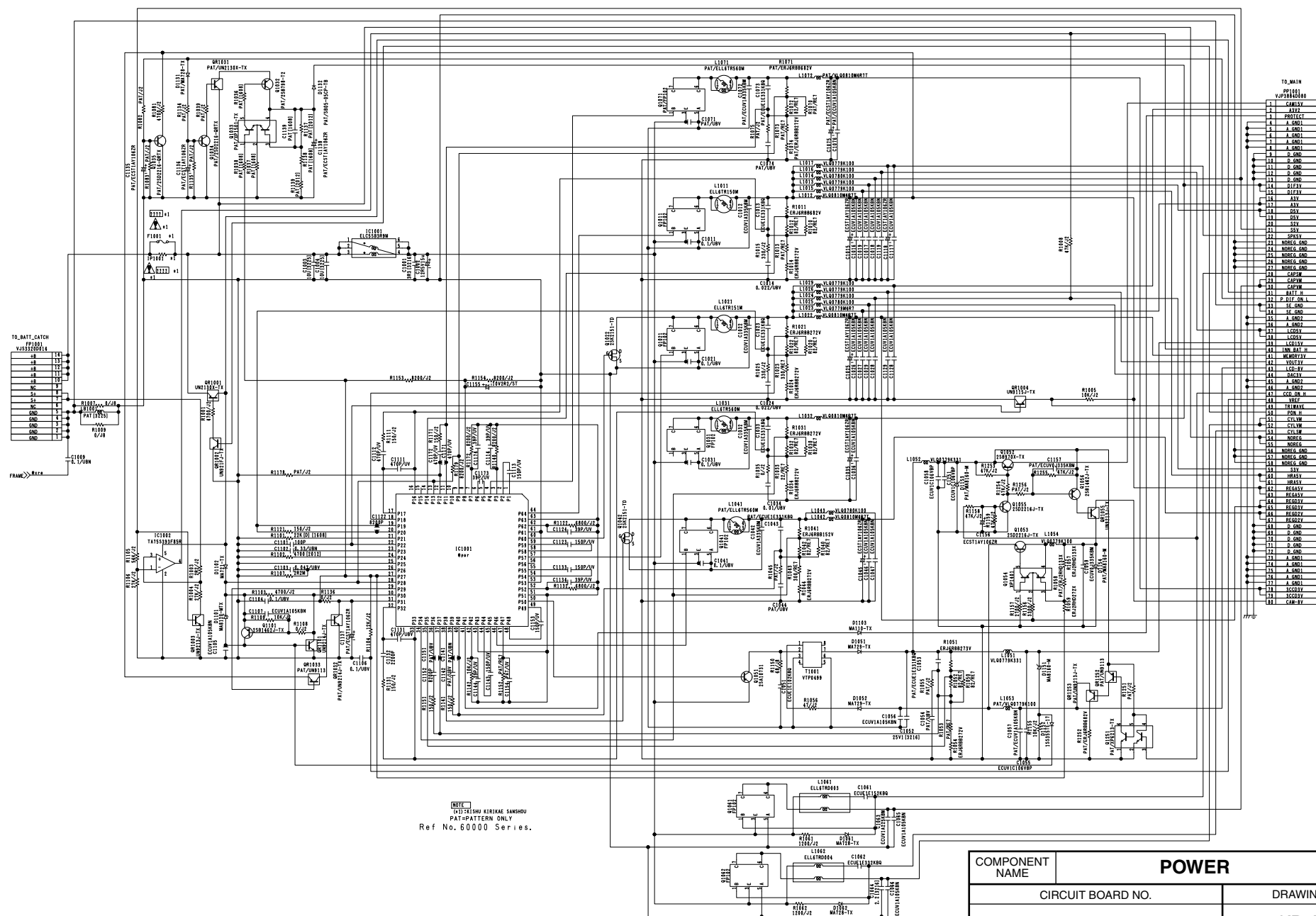
Ref No. 9000 Series.

COMPONENT NAME	EVF	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000S1	KR0P95	
	SCM013	

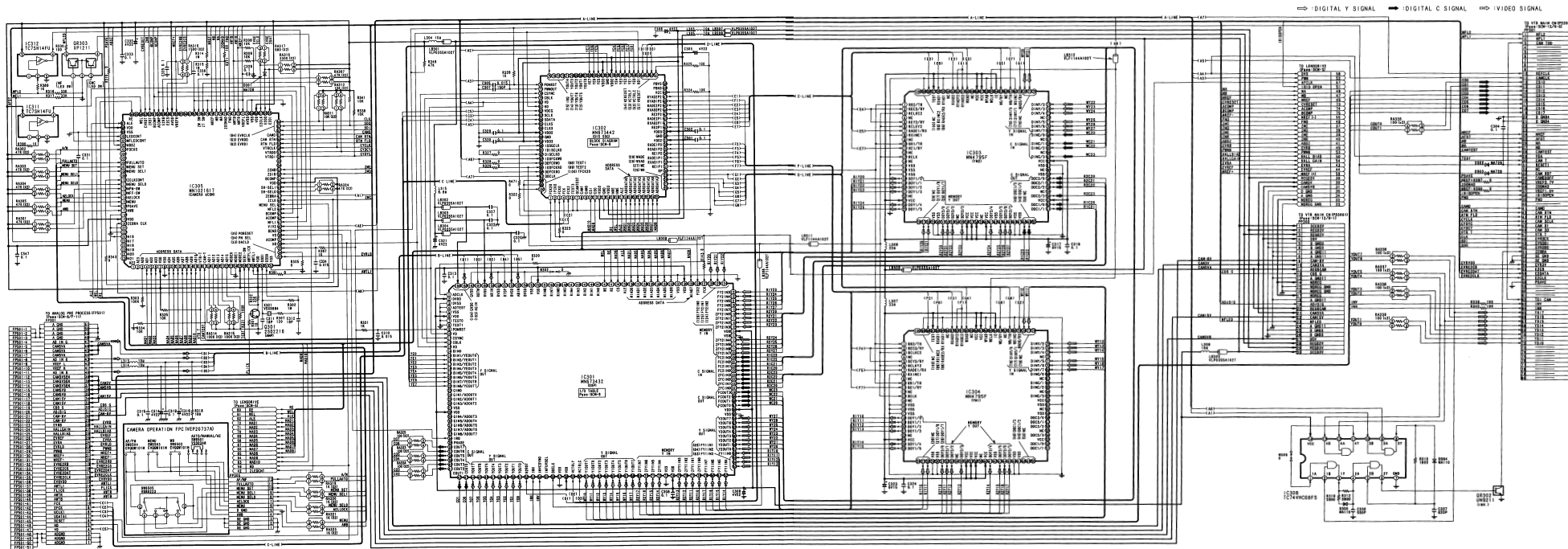


Ref No. 5500 Series.

COMPONENT NAME	PHOTO_SHOT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP000S2	KR0Q00	
	SCM013	

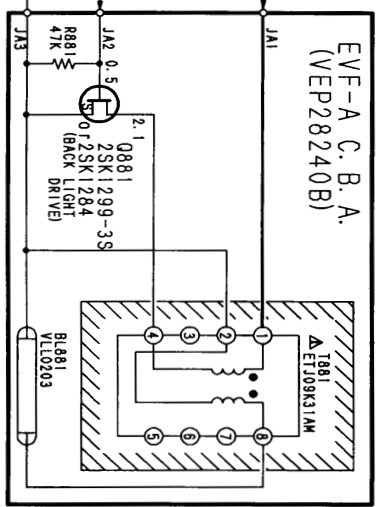
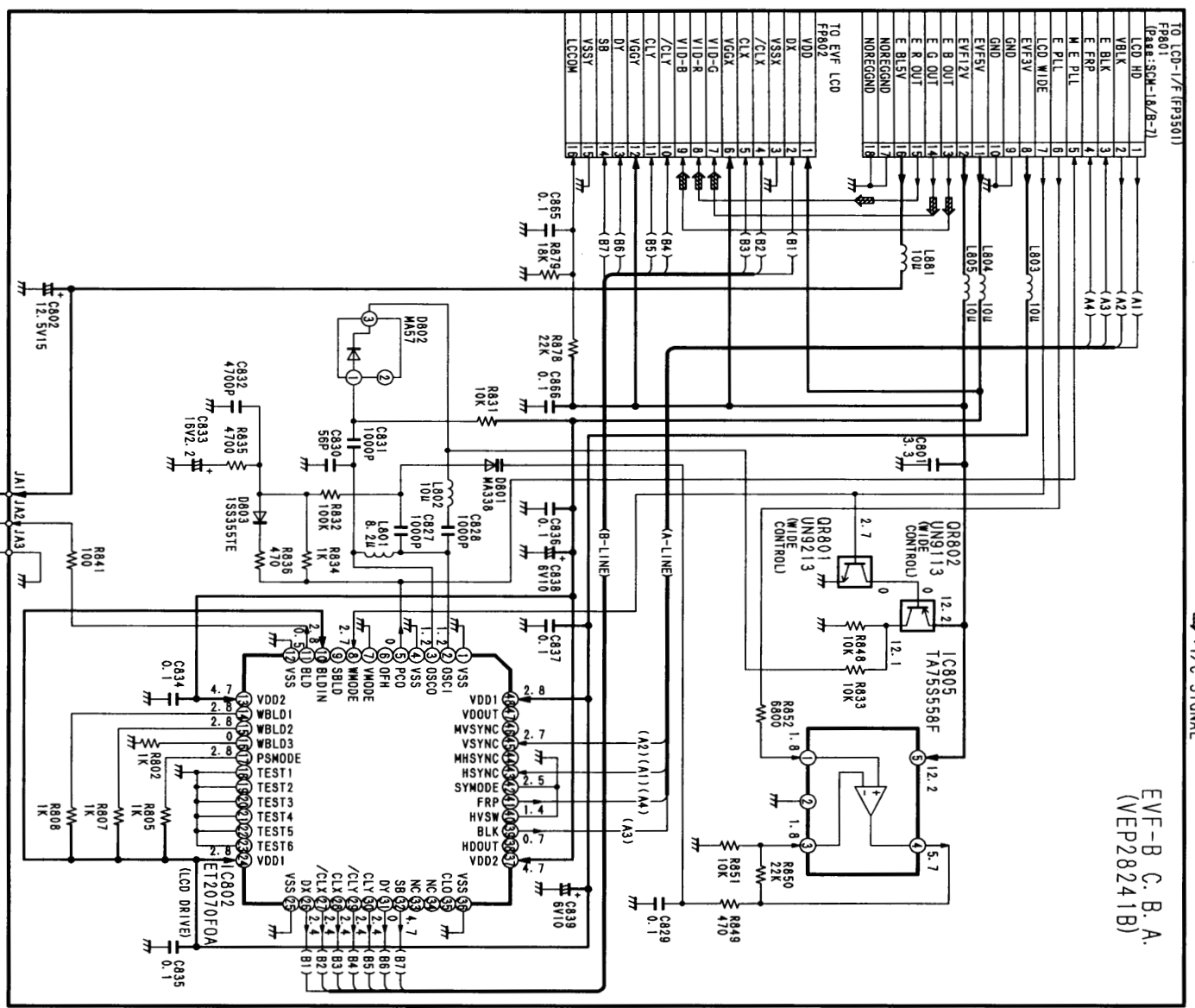


COMPONENT NAME	POWER	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP01801		KR1F05
		SCM015

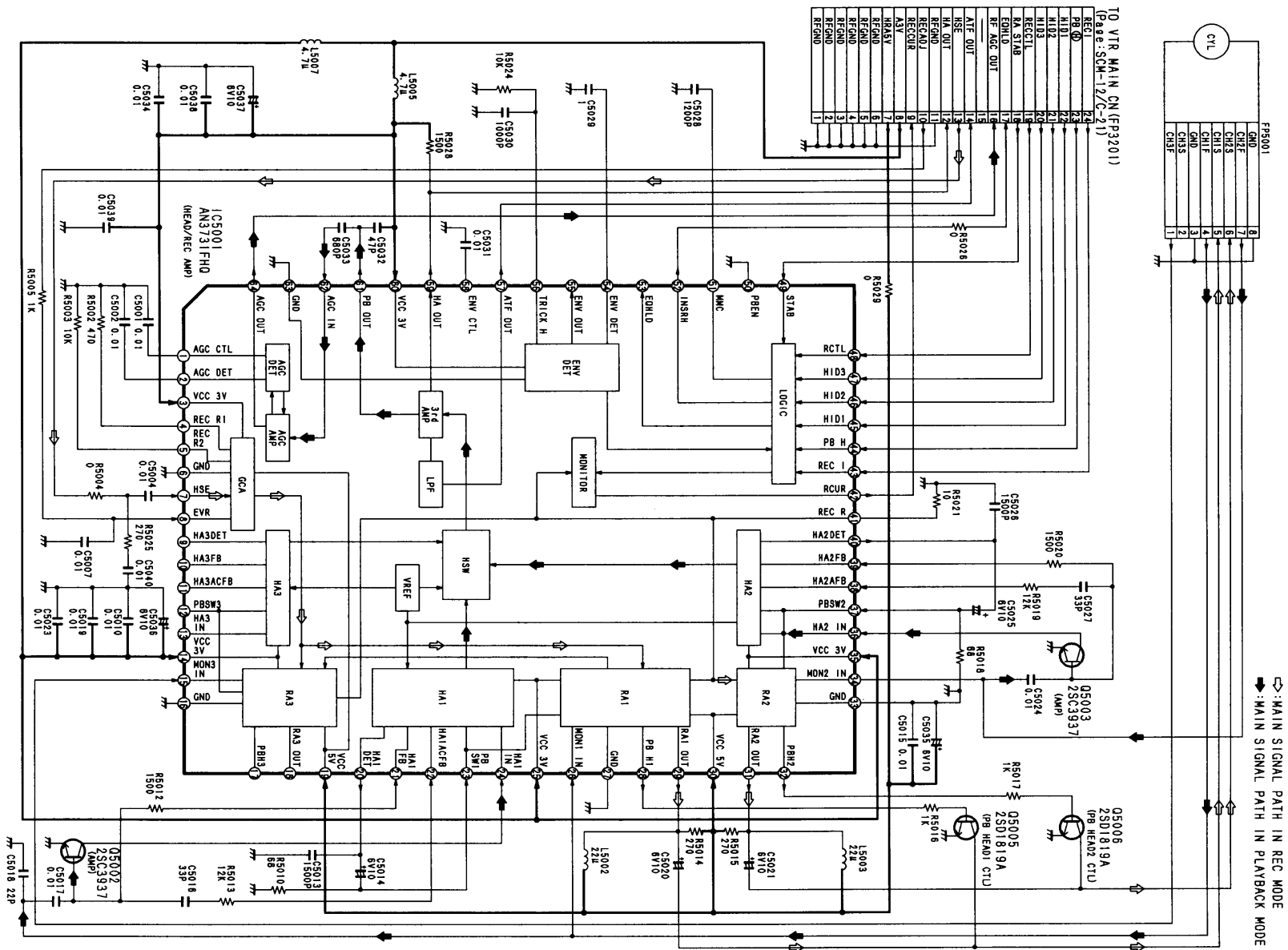


COMPONENT NAME	CAMERA MAIN & CAMERA OPERATION	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP23443		
VEP20737	SCM016	

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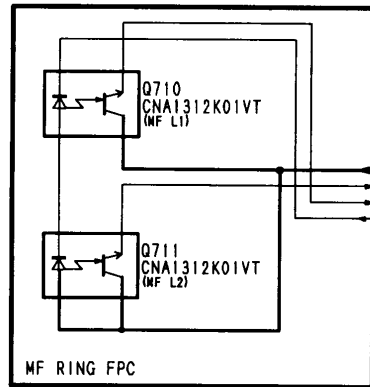


COMPONENT NAME	E.V.F.(A) & E.V.F.(B)		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP28240 VEP28241		SCM017	



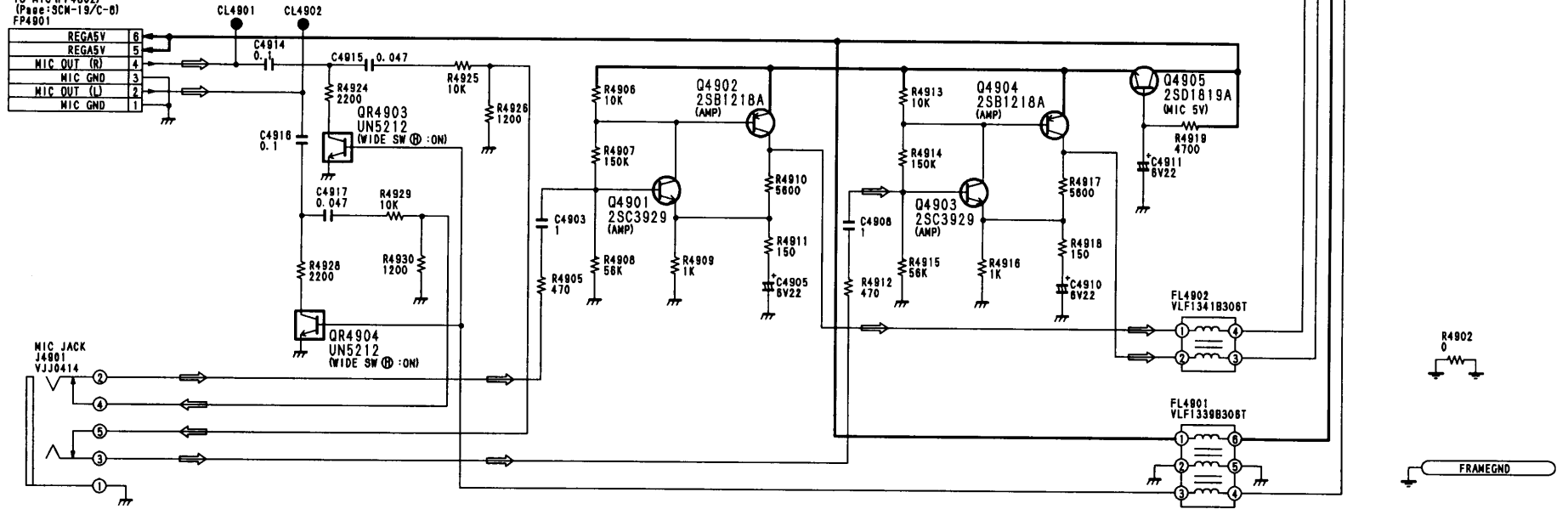
COMPONENT NAME	HEAD AMP		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP05352			
		SCM018	

⇒:MIC SIGNAL (REC MODE)

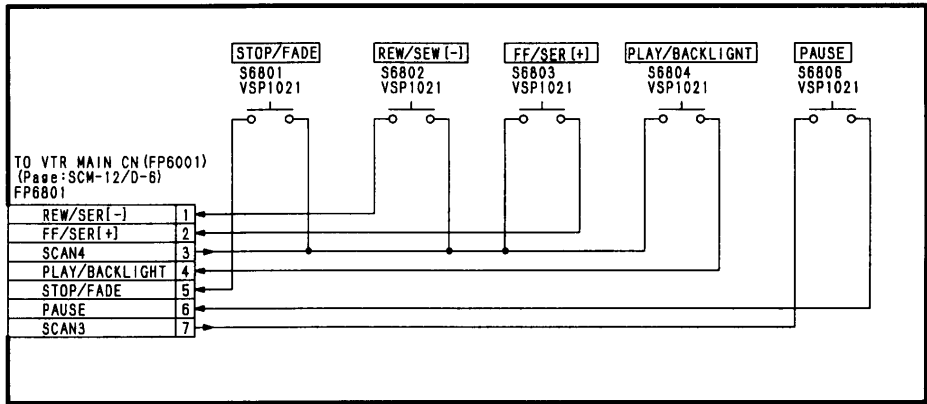


TO MIC (FP4802)
(Page:SCN-19/C-0)
FP4801

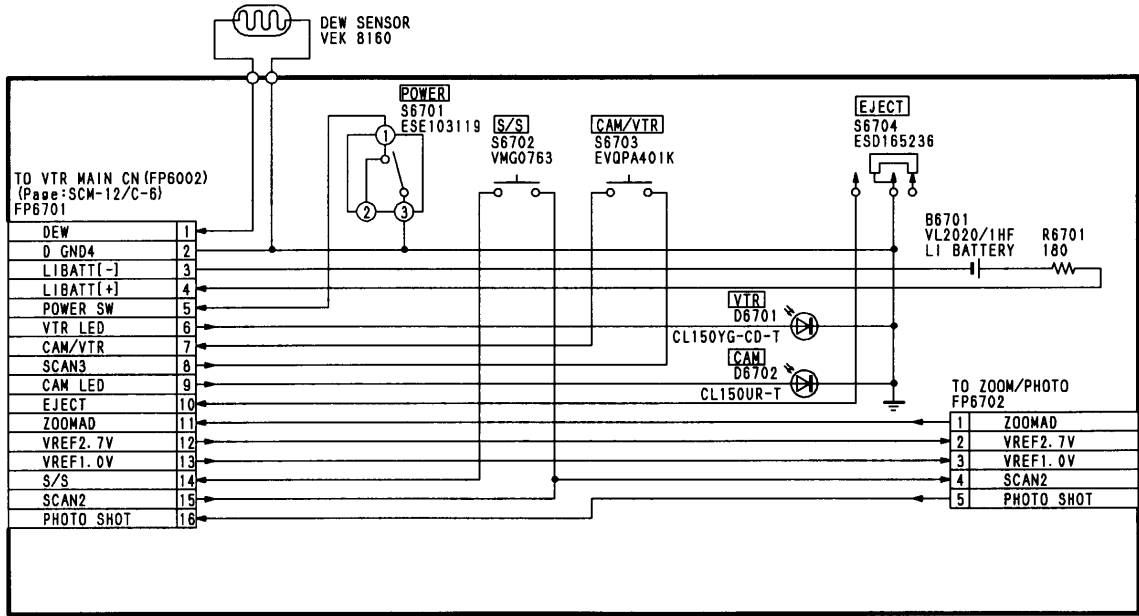
REGASY	6
REGASY	5
MIC OUT (R)	4
MIC GND	3
MIC OUT (L)	2
MIC GND	1



COMPONENT NAME	FRONT	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP04684		
	SCM019	

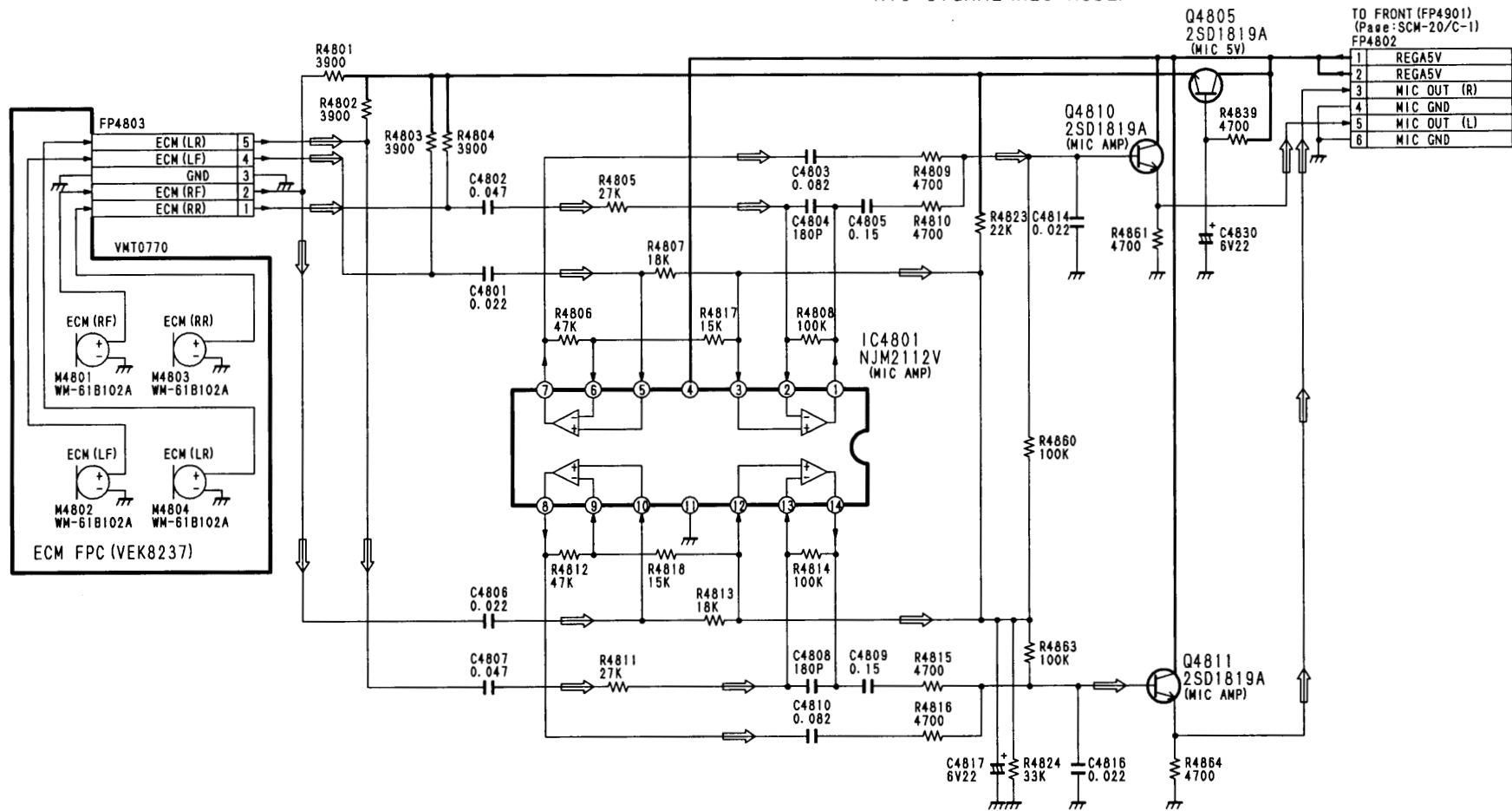


COMPONENT NAME	TOP OPERATION	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06C24		
		SCM020

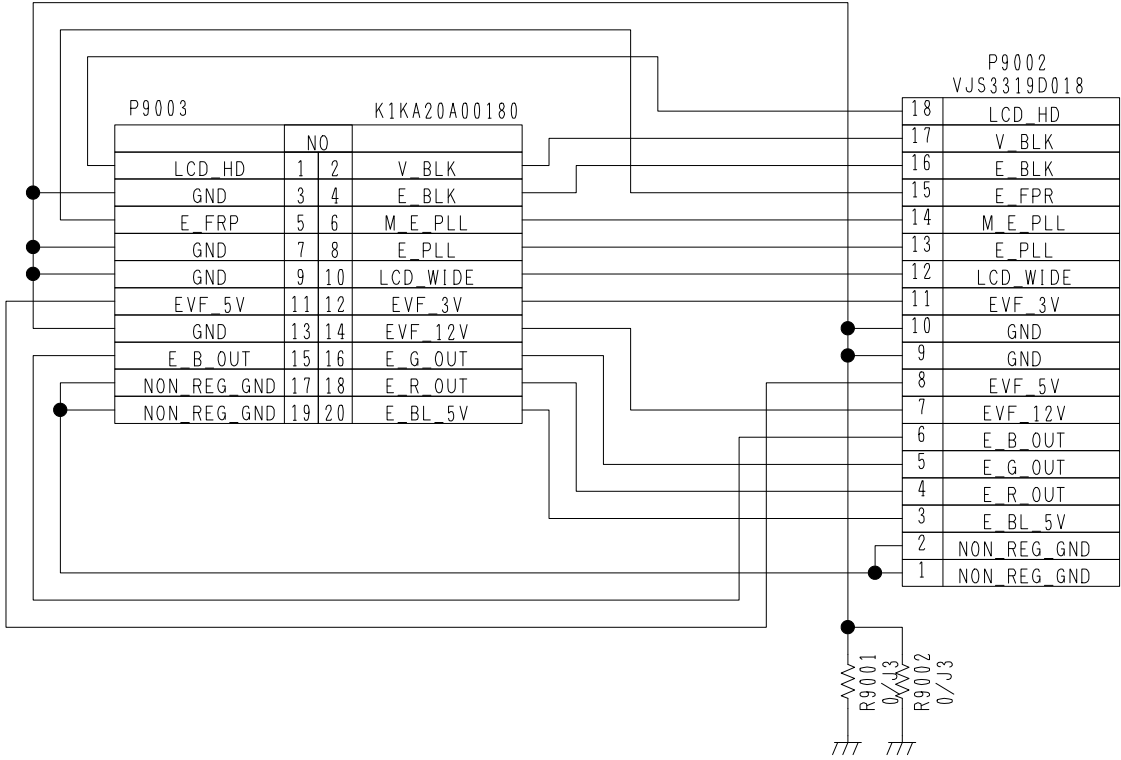


COMPONENT NAME	REAR OPERATION	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP06C37		
		SCM020

⇒ : MIC SIGNAL (REC MODE)

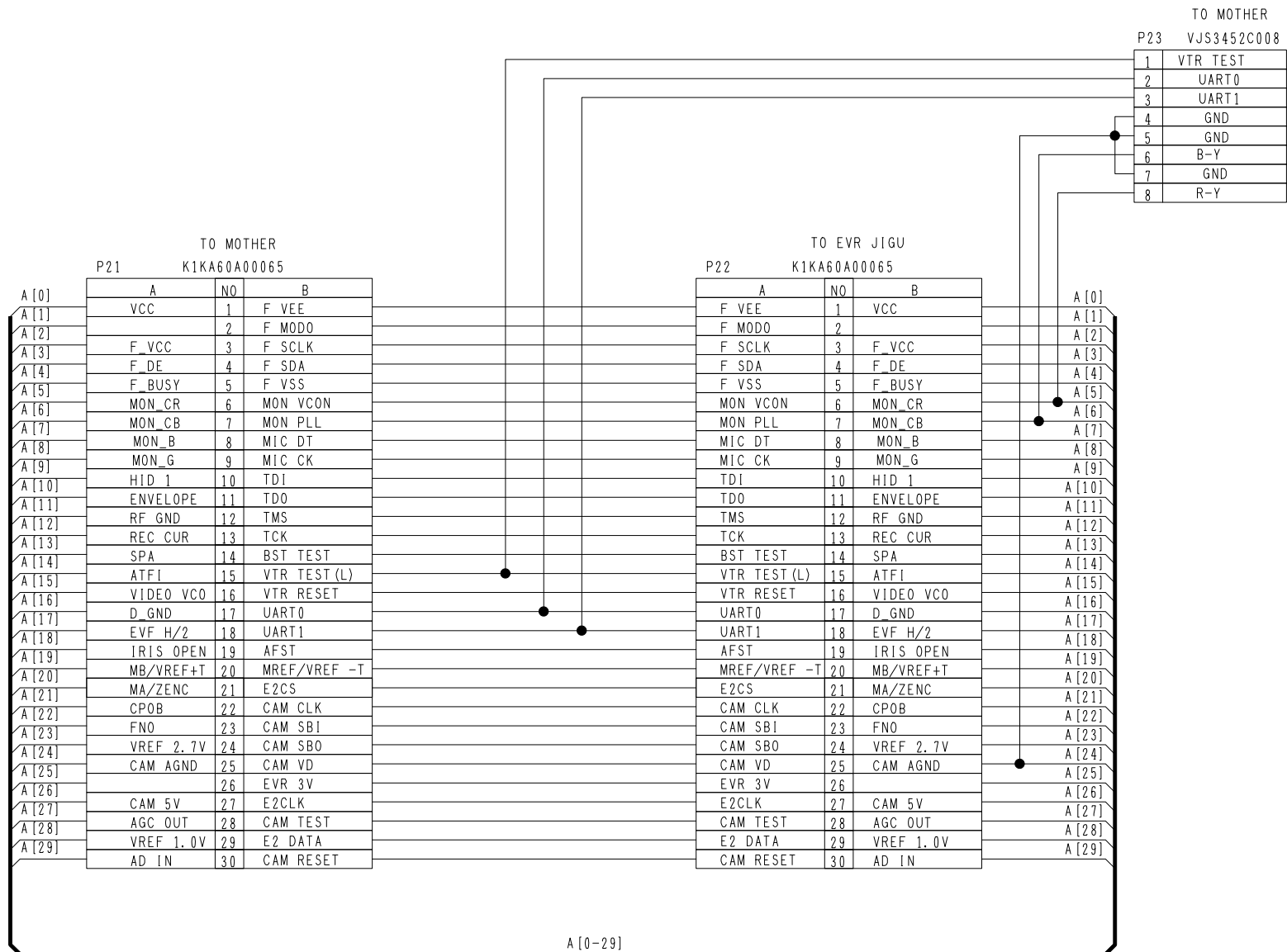


COMPONENT NAME	MIC	01/01
CIRCUIT BOARD NO.	VEP04693	DRAWING NO.
		SCM021

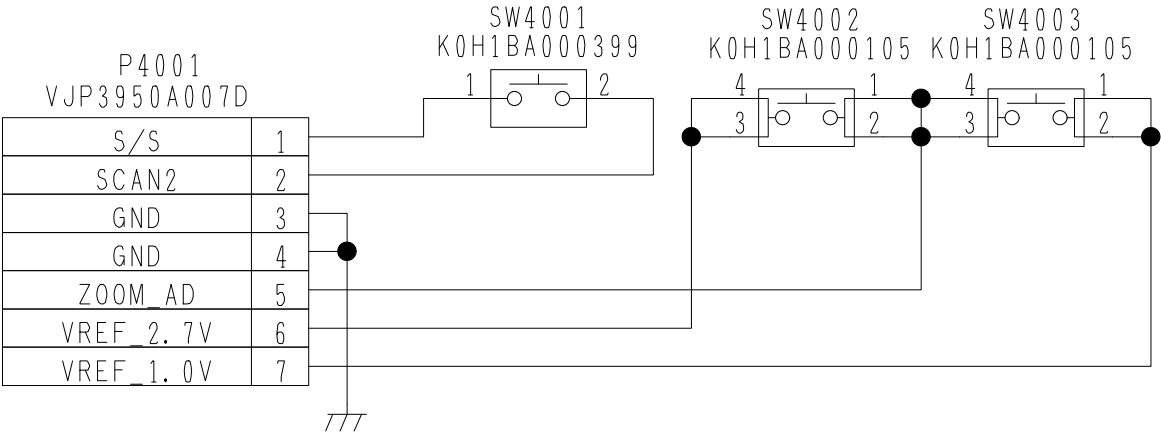


Ref No. 9000 Series.

COMPONENT NAME	EVF 2		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP000U4		KR0Q68	
		SCM022	

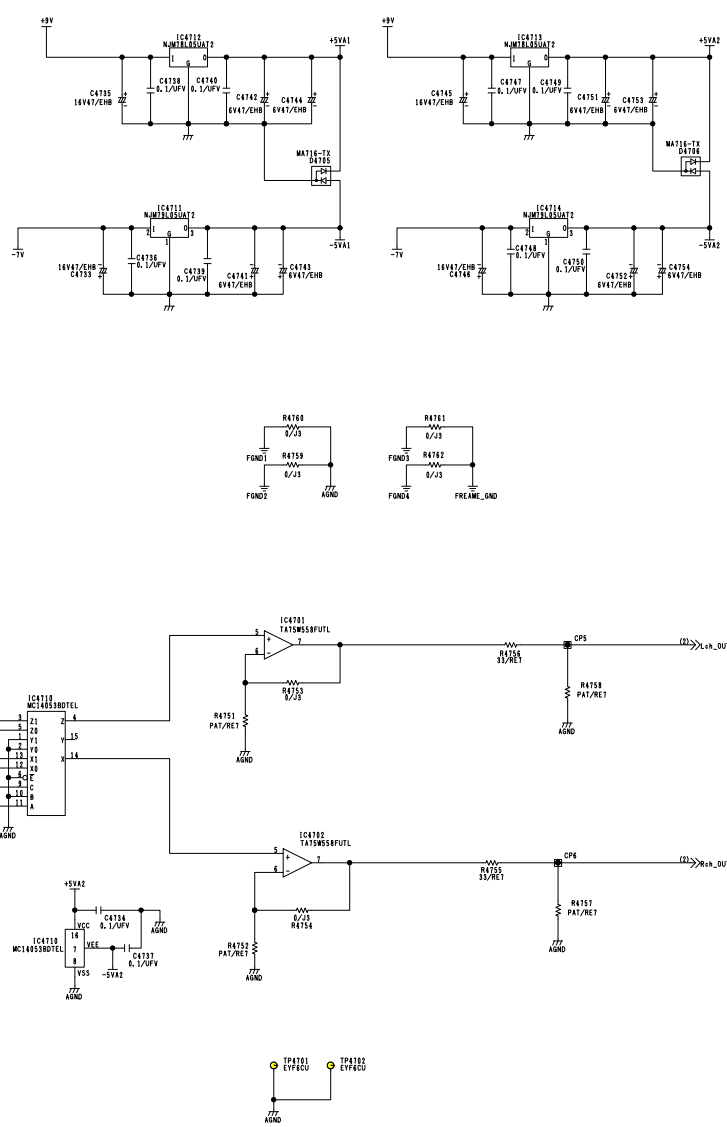
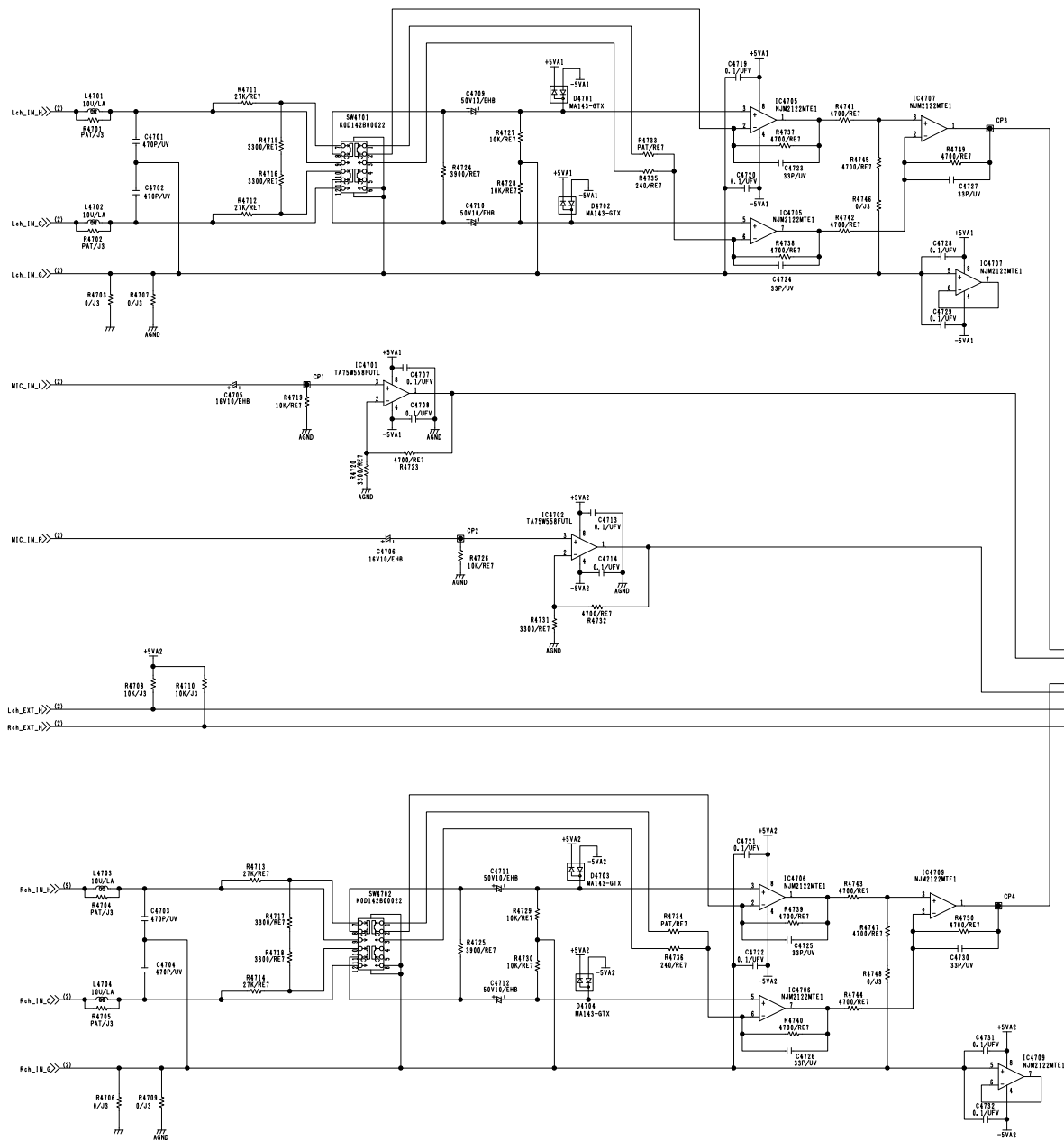


COMPONENT NAME	EVR EXT		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP000T8		KR0Q61	
		SCM023	



Ref No. 4000 series.

COMPONENT NAME	HANDLE_ZOOM		01/01
CIRCUIT BOARD NO.		DRAWING NO.	
VEP000T7		KR0Q06	
		SCM024	

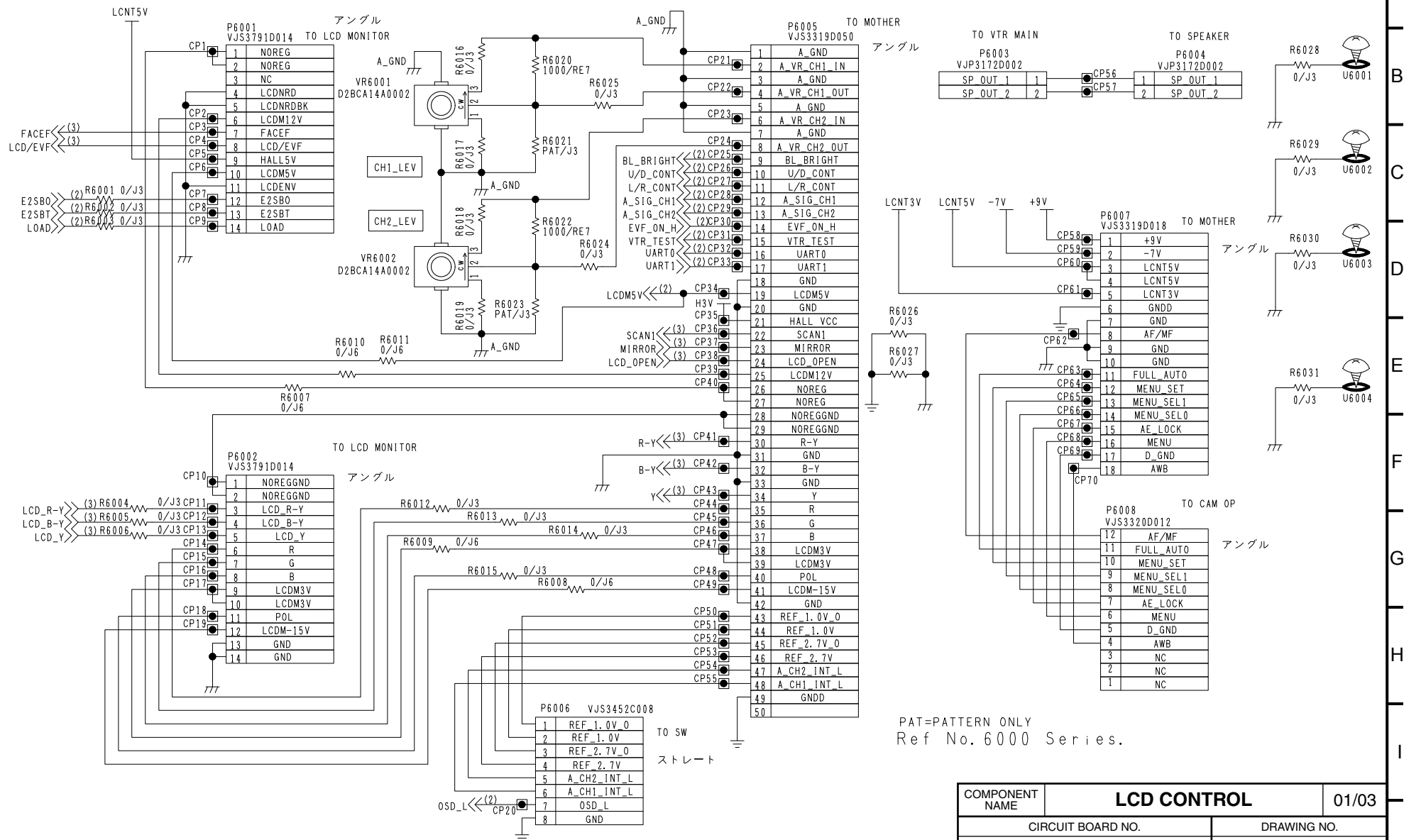


COMPONENT NAME	MIC_AMP (CONNECT)		01/02
CIRCUIT BOARD NO.		DRAWING NO.	
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		SCM025	

PAT=PATTERN ONLY
Ref No. 4700 Series.

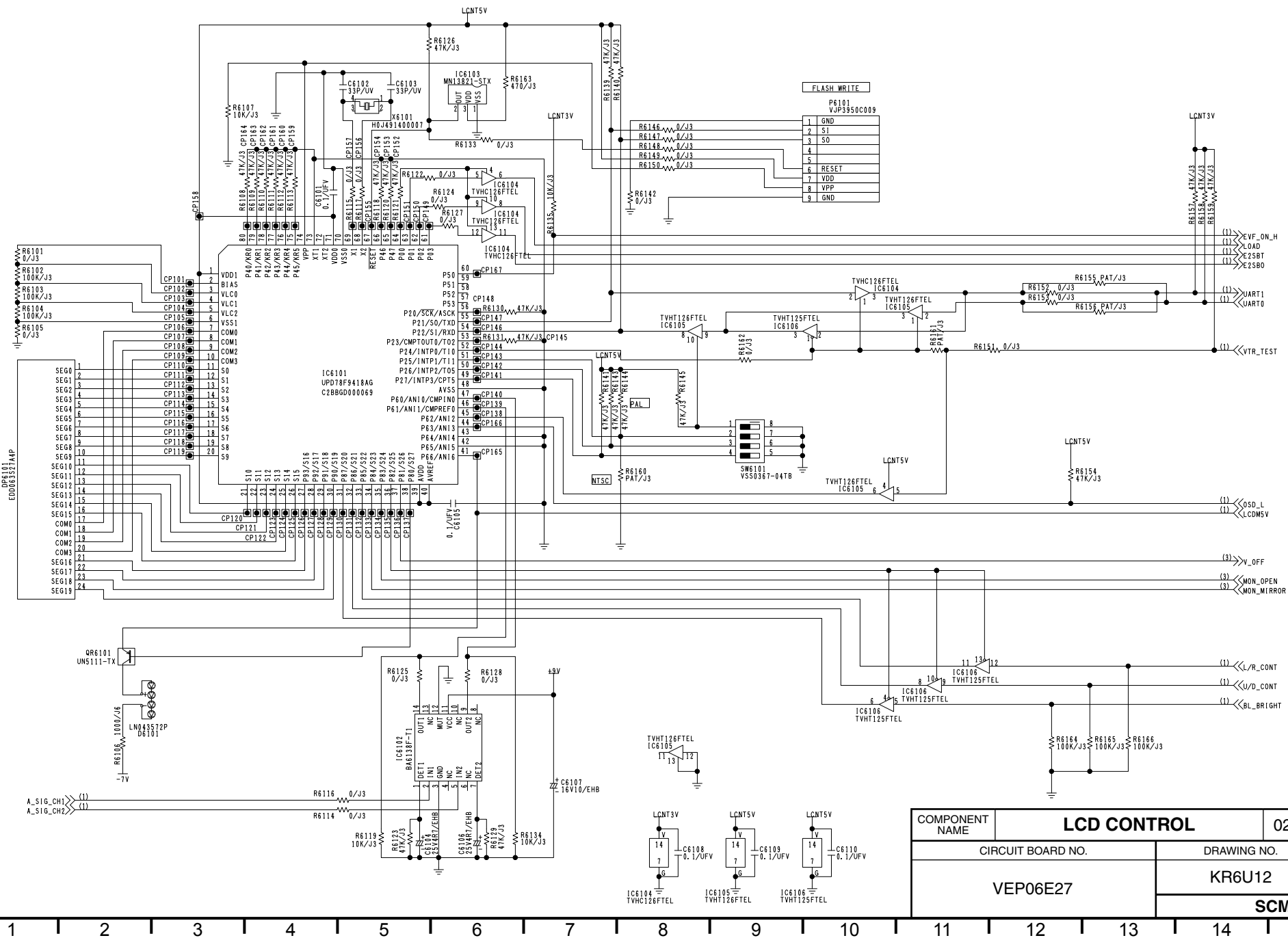
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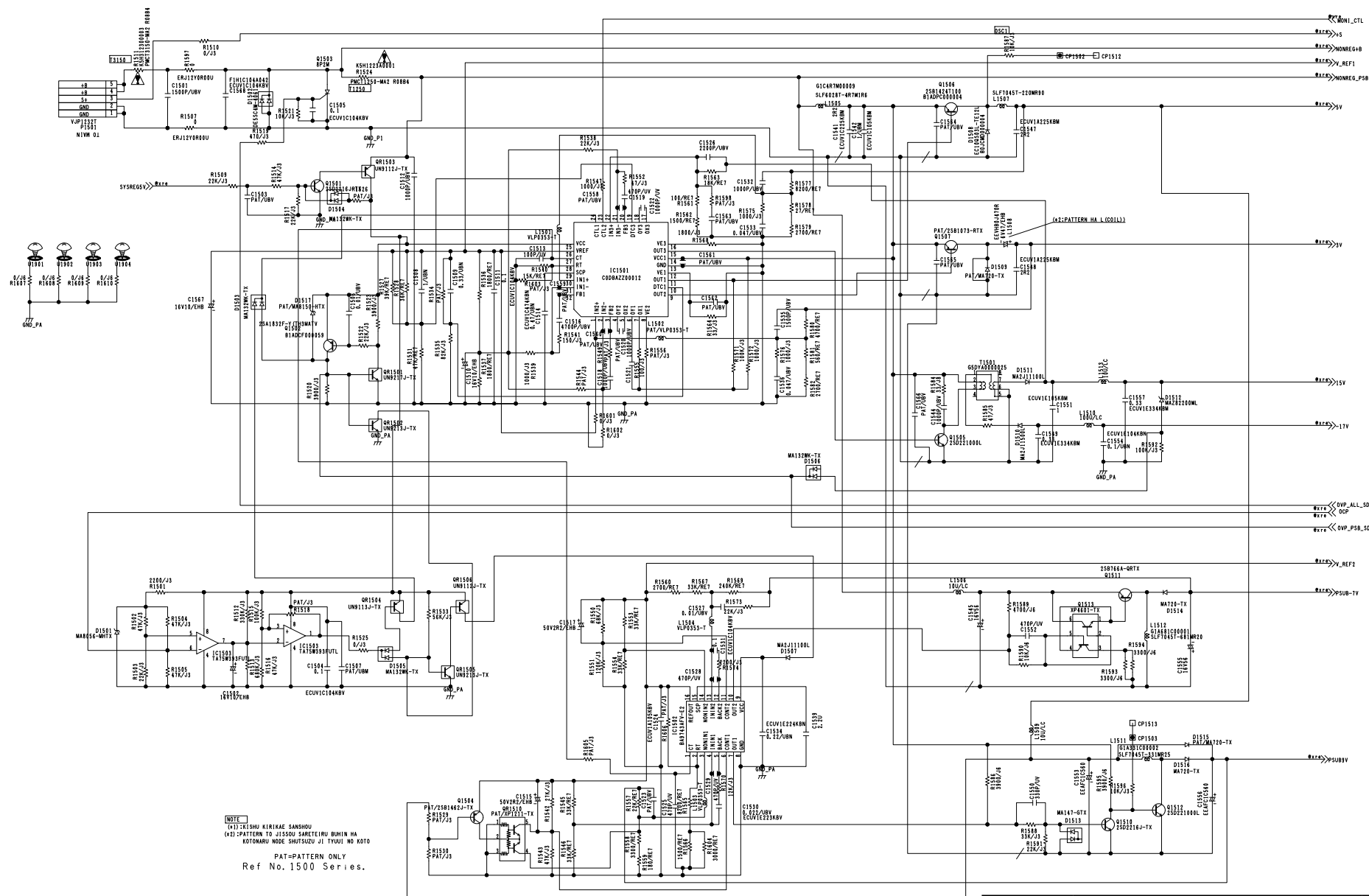


PAT=PATTERN ONLY
Ref No. 6000 Series.

COMPONENT NAME	LCD CONTROL	01/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP06E27		KR6U12
		SCM027



COMPONENT NAME	LCD CONTROL	02/03
CIRCUIT BOARD NO.	VEP06E27	DRAWING NO.
		KR6U12
		SCM028



COMPONENT NAME	SUB POWER		01/02
CIRCUIT BOARD NO.		DRAWING NO.	
VEP01896		KR1F05	
		SCM030	

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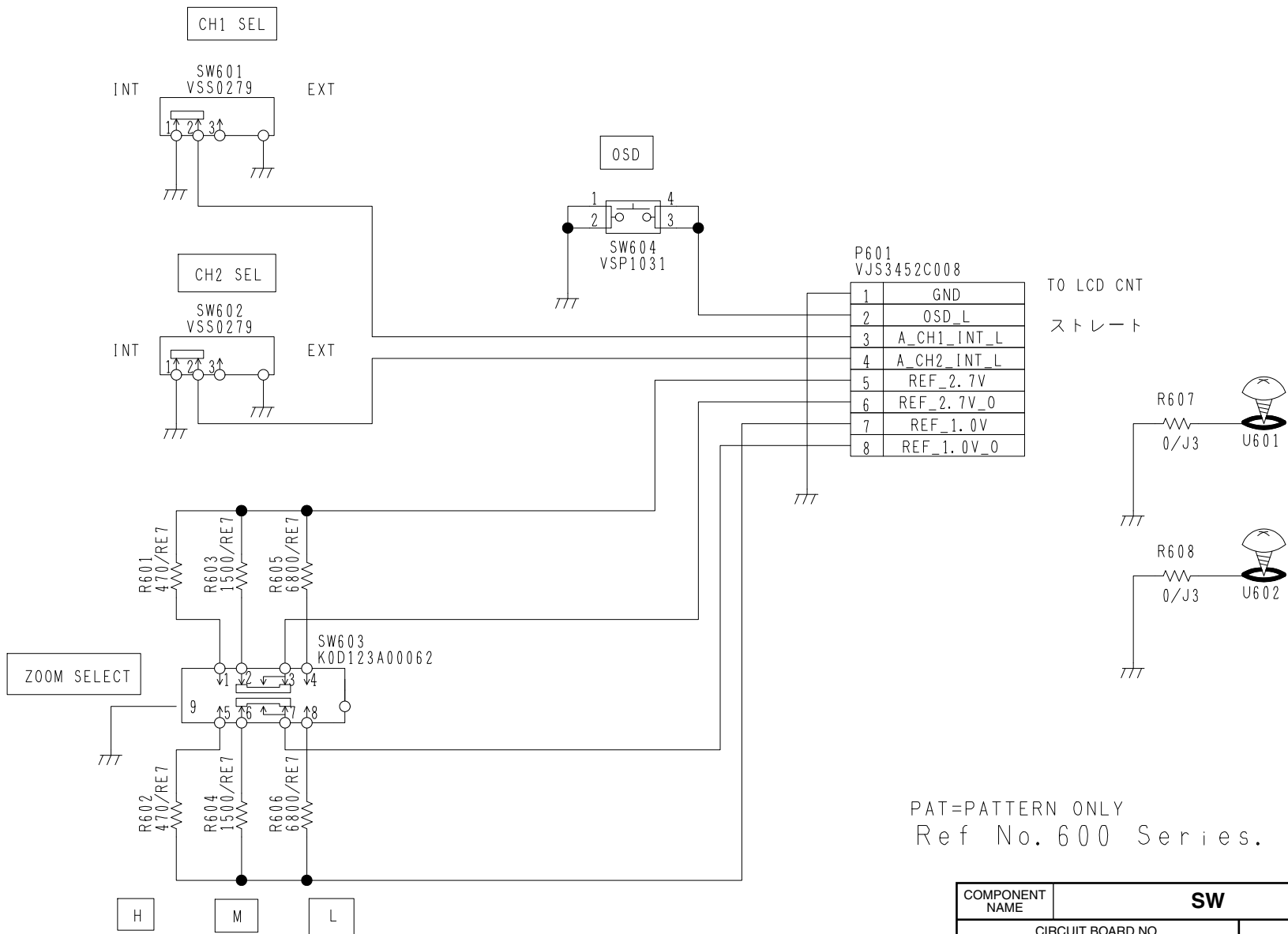
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PAT=PATTERN ONLY
Ref No. 600 Series.

COMPONENT NAME	SW	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP000T9		KR0Q62
		SCM032


SECTION 7

CIRCUIT BOARD DIAGRAMS

NOTE:


DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WAS PREPARED.

CAUTION

THE  MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:

COMPONENTS IDENTIFIED WITH THE MARK  HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

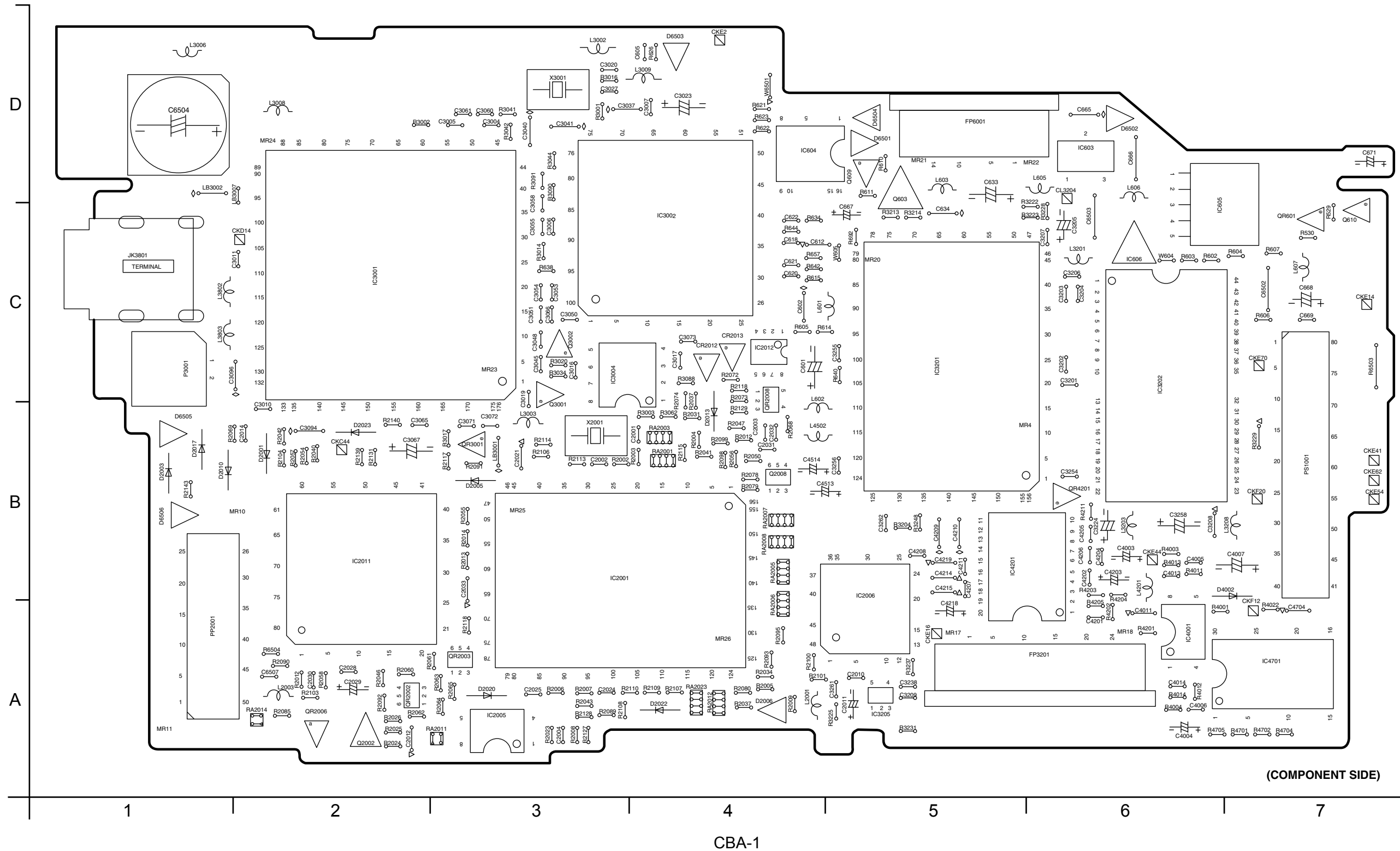
CONTENTS

VTR MAIN C.B.A. (VEP03E35C).....	CBA-1
MOTHER C.B.A. (VEP000T6A)	CBA-4
POWER C.B.A. (VEP01801C).....	CBA-6
DRIVE C.B.A. (VEP02561A).....	CBA-7
CAMERA MAIN C.B.A. (VEP23443B).....	CBA-8
CAMERA OPERATION C.B.A. (VEP20737B)	CBA-9
E.V.F. (A) C.B.A. (VEP28240D).....	CBA-10
E.V.F. (B) C.B.A. (VEP28244B).....	CBA-10
HEAD AMP C.B.A. (VEP05352A)	CBA-11
FRONT C.B.A. (VEP04684A)	CBA-12
TOP OPERATION C.B.A. (VEP06C24A).....	CBA-13
MIC C.B.A. (VEP04693A)	CBA-13
REAR OPERATION C.B.A. (VEP06C37A)	CBA-14
ZOOM C.B.A. (VEP000T7A).....	CBA-15
EVR EXT C.B.A. (VEP000T8A).....	CBA-15
EVF INT C.B.A. (VEP000U4A).....	CBA-15
MIC AMP C.B.A. (VEP04777A).....	CBA-16
JACK C.B.A. (VEP04778A)	CBA-17
SUB POWER C.B.A. (VEP01896A).....	CBA-18
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SW C.B.A. (VEP000T9A).....	CBA-19

VTR MAIN C.B.A (VEP03E35C)

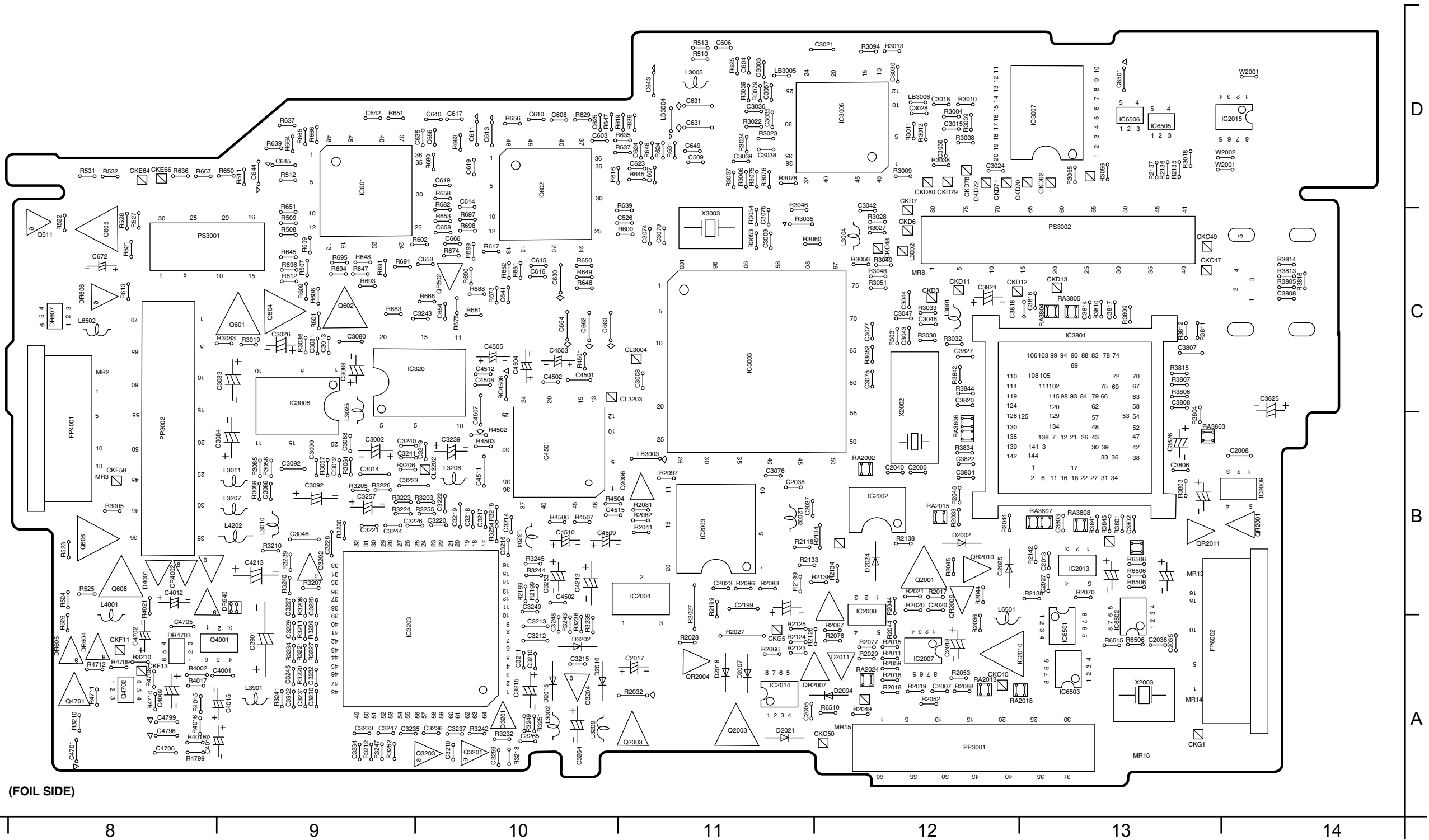
VTR MAIN C.B.A. (1)																																
Integrated Circuit		IC2004	B-4	IC2015	D-7	IC3204	C-3	IC6506	D-6	Q610	C-7	Q3203	A-3	QR606	C-1	QR2010	B-6	Test Point		CKD3	C-5	CKD78	D-5	CKE62	B-7	CL3004	C-4	D2006	A-4	D2021	A-5	
IC601	D-3	IC2005	A-3	IC3001	C-2	IC3205	A-5	Transistor	Q611	C-1	B-5	Q3204	A-4	QR607	C-1	QR2011	B-7	C-7	CKK43	B-5	CKD6	C-5	CKD79	D-5	CKE64	D-1	CL3202	B-3	D2007	A-4	D2022	A-4
	D-3	IC2006	A-5	IC3002	C-4	IC3801	C-6			Q2001	C-5	Q4001	A-2	QR2001	A-2	QR2012	C-4	QR2013			B-2	CKK44	B-2	CKD7	D-5	CKD80	D-5	CKE66	D-1	CL3203	C-4	D2010
IC602	D-3	IC2007	A-5	IC3003	C-4	IC4001	A-6	Q601	C-2	Q2002	A-2	Q4701	A-1	QR2002	A-2	QR2013	C-4	C-4	CKK45	A-6	CKD11	C-5	CKE2	D-4	CKE70	C-7	CL3204	C-4	D2011	A-5	D2024	B-5
IC603	D-6	IC2008	B-5	IC3004	C-3	IC4201	B-6	Q602	C-2	Q2003	A-4	Q4702	A-1	QR2003	A-3	QR3001	B-3	CKK46			C-7	CKD12	C-6	CKE14	C-7	CKF11	A-7	Diode	D2001	B-2	D2012	A-5
IC604	D-4	IC2009	B-7	IC3005	D-5	IC4501	B-3	Q603	C-5	Q2006	B-4	Transistor & Resistor	QR2004	A-4	QR4001	B-2	B-2	CKK47	C-7	CKD13	C-6	CKE16	A-5	CKF12	A-7	D2002	B-6				D2013	B-4
IC605	C-7	IC2010	A-6	IC3006	C-2	IC4701	A-1	Q604	C-2	Q2008	B-4			QR601	C-7	QR2005	A-4			QR4002	B-2	CKK48	C-5	CKD14	C-2			CKE20	B-7	CKF13	A-1	D2003
IC606	C-6	IC2011	B-2	IC3007	D-6	IC6501	A-6	Q605	C-1	Q3001	B-3	QR602	C-3			QR2006	A-1	QR4003	B-2	CKK49	C-7	CKD62	D-6	CKE41	B-7	CKG1	A-7	D2004	A-5	D2015	A-3	
IC2001	B-3	IC2012	C-4	IC3201	C-5	IC6502	A-6	Q606	B-1	Q3002	C-3	QR603	C-3	QR2007	A-5	QR4201	B-6	CKK50	A-5	CKD70	D-6	CKE44	B-6	CKG5	A-6	D2005	B-3			D2016	A-4	D4002
IC2002	B-5	IC2013	B-6	IC3202	C-6	IC6503	A-6	Q608	B-1	Q3201	A-3	QR604	A-1	QR2008	B-4	QR4703	A-2	CKC50	A-5	CKD71	D-6	CKE54	B-7	CL3001	D-5			D2006	A-5	D2017	B-1	D4003
IC2003	A-4	IC2014	A-5	IC3203	A-3	IC6505	D-6	Q609	D-5	Q3202	B-2	QR605	A-1	QR2009	B-5			CKC51	B-6	CKD72	D-6	CKE58	B-1	CL3002	C-5					D2018	A-4	D6501

ADDRESS INFORMATION ©... COMPONENT SIDE ⑥... FOIL SIDE



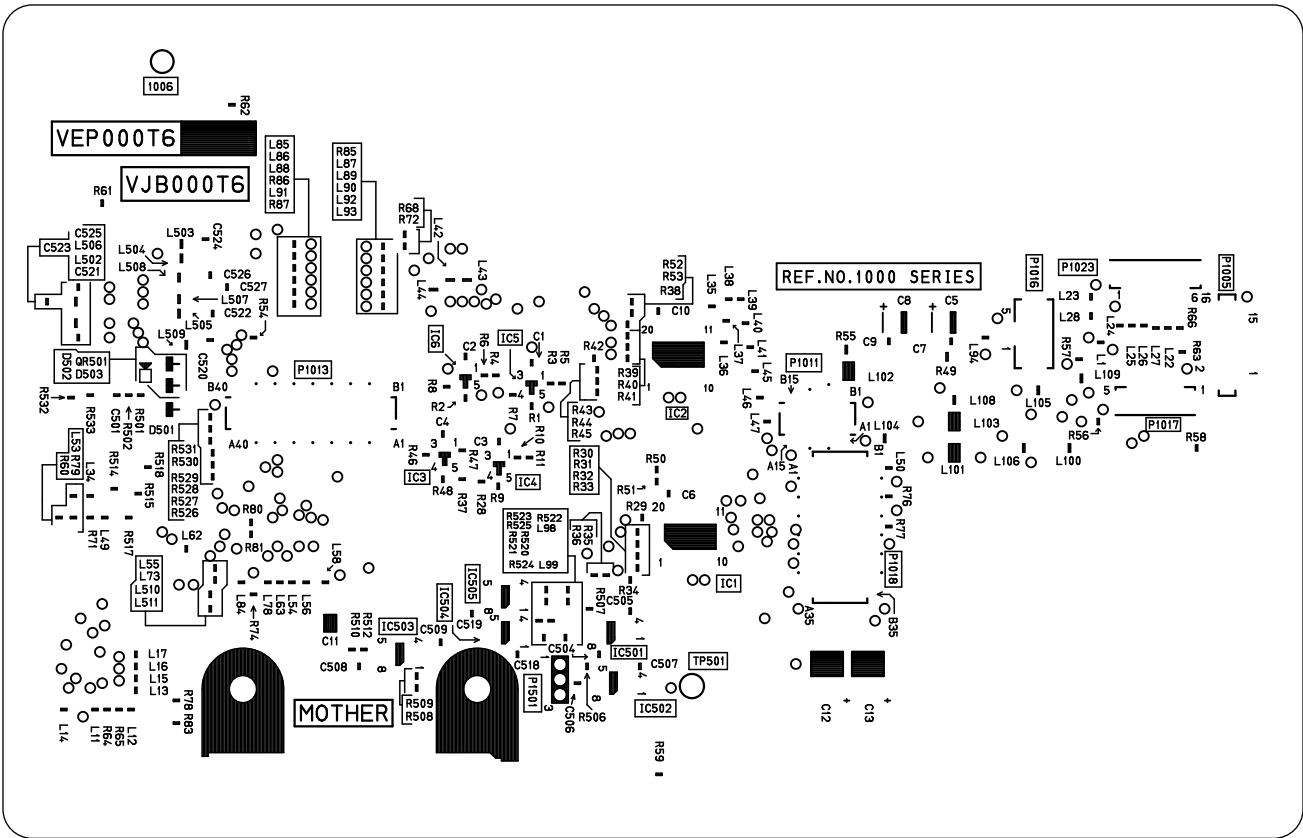
VTR MAIN C.B.A. (2)																																																	
D6503	D-4	Ⓢ	PP2001	A-1	Ⓢ	L603	D-5	Ⓢ	L3006	D-1	Ⓢ	L3207	B-2	Ⓢ	L6501	B-6	Ⓢ	Crystal Oscillator			C603	D-4	Ⓢ	C614	D-3	Ⓢ	C625	D-4	Ⓢ	C639	D-2	Ⓢ	C650	D-2	Ⓢ	C664	C-4	Ⓢ	C2004	A-3	Ⓢ	C2015	B-6	Ⓢ	C2027	B-6	Ⓢ		
D6504	D-5	Ⓢ	PP3001	A-6	Ⓢ	L605	D-6	Ⓢ	L3008	D-2	Ⓢ	L3208	B-7	Ⓢ	L6502	C-1	Ⓢ	X2001	B-3	Ⓢ	C604	D-4	Ⓢ	C615	C-3	Ⓢ	C626	C-4	Ⓢ	C640	D-3	Ⓢ	C651	C-2	Ⓢ	C665	D-6	Ⓢ	C2005	A-5	Ⓢ	C2016	A-4	Ⓢ	C2028	A-2	Ⓢ		
D6505	B-1	Ⓢ	PP3002	B-2	Ⓢ	L606	D-6	Ⓢ	L3009	D-4	Ⓢ	L3209	A-4	Ⓢ	LB3001	B-3	Ⓢ	X2002	C-5	Ⓢ	C605	D-4	Ⓢ	C616	C-3	Ⓢ	C630	C-3	Ⓢ	C641	D-3	Ⓢ	C652	C-3	Ⓢ	C666	D-6	Ⓢ	C2006	B-5	Ⓢ	C2017	A-4	Ⓢ	C2029	A-2	Ⓢ		
D6506	B-1	Ⓢ	PS1001	B-7	Ⓢ	L607	C-7	Ⓢ	L3010	B-2	Ⓢ	L3201	C-5	Ⓢ	LB3002	D-1	Ⓢ	X2003	A-6	Ⓢ	C606	D-4	Ⓢ	C617	D-3	Ⓢ	C631	D-4	Ⓢ	C642	D-3	Ⓢ	C653	C-3	Ⓢ	C667	C-5	Ⓢ	C2007	A-5	Ⓢ	C2018	A-5	Ⓢ	C2030	A-2	Ⓢ		
Connector			PS3001	C-2	Ⓢ	L2001	A-4	Ⓢ	L3011	B-2	Ⓢ	L3202	C-1	Ⓢ	LB3003	B-4	Ⓢ	X3001	D-3	Ⓢ	C607	D-4	Ⓢ	C618	C-4	Ⓢ	C632	D-4	Ⓢ	C643	D-4	Ⓢ	C654	C-3	Ⓢ	C668	C-7	Ⓢ	C2008	B-7	Ⓢ	C2019	B-5	Ⓢ	C2031	B-4	Ⓢ		
			PS3002	C-6	Ⓢ	L2002	B-5	Ⓢ	L3201	C-6	Ⓢ	L3803	C-1	Ⓢ	LB3004	D-4	Ⓢ	X3003	C-4	Ⓢ	C608	D-3	Ⓢ	C619	D-3	Ⓢ	C633	D-5	Ⓢ	C644	D-2	Ⓢ	C655	C-3	Ⓢ	C669	C-7	Ⓢ	C2009	B-7	Ⓢ	C2020	B-5	Ⓢ	C2032	B-4	Ⓢ		
FP3201	A-6	Ⓢ	JK3801	C-1	Ⓢ	L2003	A-2	Ⓢ	L3202	A-3	Ⓢ	L3901	A-2	Ⓢ	LB3005	D-5	Ⓢ	Capacitor			C610	D-4	Ⓢ	C620	C-4	Ⓢ	C634	C-5	Ⓢ	C645	D-2	Ⓢ	C656	D-3	Ⓢ	C671	D-7	Ⓢ	C2010	A-5	Ⓢ	C2021	B-3	Ⓢ	C2033	B-3	Ⓢ		
FP4001	B-1	Ⓢ	Coil			L3002	D-3	Ⓢ	L3203	B-6	Ⓢ	L4001	B-1	Ⓢ	LB3006	D-5	Ⓢ			C611	D-3	Ⓢ	C621	C-4	Ⓢ	C635	D-3	Ⓢ	C646	C-2	Ⓢ	C657	C-3	Ⓢ	C672	C-1	Ⓢ	C2011	A-5	Ⓢ	C2023	B-4	Ⓢ	C2034	B-5	Ⓢ			
FP6001	D-5	Ⓢ				L3003	B-3	Ⓢ	L3204	B-3	Ⓢ	L4201	B-6	Ⓢ	LB3007	D-2	Ⓢ			C601	C-4	Ⓢ	C612	C-4	Ⓢ	C612	C-4	Ⓢ	C612	D-4	Ⓢ	C637	D-2	Ⓢ	C648	C-3	Ⓢ	C662	C-4	Ⓢ	C2002	B-3	Ⓢ	C2013	B-6	Ⓢ	C2025	A-3	Ⓢ
FP6002	A-7	Ⓢ	L601	C-5	Ⓢ	L3004	C-5	Ⓢ	L3205	B-2	Ⓢ	L4202	B-2	Ⓢ			C602	C-4	Ⓢ			C602	C-4	Ⓢ	C613	D-3	Ⓢ	C624	D-4	Ⓢ	C638	D-3	Ⓢ	C649	D-4	Ⓢ	C663	C-4	Ⓢ	C2003	B-4	Ⓢ	C2014	B-2	Ⓢ	C2026	B-6	Ⓢ	
P3001	C-1	Ⓢ	L602	B-4	Ⓢ	L3005	D-4	Ⓢ	L3206	B-3	Ⓢ	L4502	B-5	Ⓢ							C603	D-4	Ⓢ	C614	C-3	Ⓢ	C625	D-4	Ⓢ	C639	D-2	Ⓢ	C650	D-2	Ⓢ	C664	C-4	Ⓢ	C2004	A-3	Ⓢ	C2015	B-6	Ⓢ					
																					C604	D-4	Ⓢ	C615	C-3	Ⓢ	C626	C-4	Ⓢ	C640	D-3	Ⓢ	C651	C-2	Ⓢ	C665	A-5	Ⓢ	C2016	A-4	Ⓢ	C2028	A-2	Ⓢ					
																					C605	D-4	Ⓢ	C616	C-3	Ⓢ	C630	C-3	Ⓢ	C641	D-3	Ⓢ	C652	C-3	Ⓢ	C666	B-5	Ⓢ	C2006	B-5	Ⓢ	C2029	A-2	Ⓢ					
																					C606	D-4	Ⓢ	C617	D-3	Ⓢ	C631	D-4	Ⓢ	C642	D-3	Ⓢ	C653	C-3	Ⓢ	C667	C-5	Ⓢ	C2007	A-5	Ⓢ	C2018	A-5	Ⓢ					
																					C607	D-4	Ⓢ	C618	C-4	Ⓢ	C632	D-4	Ⓢ	C643	D-4	Ⓢ	C654	C-3	Ⓢ	C668	C-7	Ⓢ	C2008	B-7	Ⓢ	C2019	B-5	Ⓢ					
																					C608	D-3	Ⓢ	C619	D-3	Ⓢ	C633	D-5	Ⓢ	C644	D-2	Ⓢ	C655	D-3	Ⓢ	C669	C-7	Ⓢ	C2009	B-7	Ⓢ	C2020	B-5	Ⓢ					
																					C609	D-4	Ⓢ	C620	C-4	Ⓢ	C634	C-5	Ⓢ	C645	D-2	Ⓢ	C656	D-3	Ⓢ	C671	D-7	Ⓢ	C2010	A-5	Ⓢ	C2021	B-3	Ⓢ					
																					C610	D-3	Ⓢ	C621	C-4	Ⓢ	C635	D-3	Ⓢ	C646	C-2	Ⓢ	C657	C-3	Ⓢ	C672	C-1	Ⓢ	C2011	A-5	Ⓢ	C2023	B-4	Ⓢ					
																					C611	D-3	Ⓢ	C622	C-4	Ⓢ	C636	D-2	Ⓢ	C647	C-3	Ⓢ	C658	C-3	Ⓢ	C673	B-4	Ⓢ	C2012	A-2	Ⓢ	C2024	A-3	Ⓢ					
																					C612	C-4	Ⓢ	C623	D-4	Ⓢ	C637	D-4	Ⓢ	C648	C-4	Ⓢ	C662	C-4	Ⓢ	C674	B-3	Ⓢ	C2013	B-6	Ⓢ	C2025	A-3	Ⓢ					
																					C613	D-3	Ⓢ	C624	D-4	Ⓢ	C638	D-3	Ⓢ	C649	D-4	Ⓢ	C663	C-4	Ⓢ	C675	B-4	Ⓢ	C2014	B-2	Ⓢ	C2026	B-6	Ⓢ					

ADDRESS INFORMATION Ⓢ...COMPONENT SIDE Ⓢ...FOIL SIDE



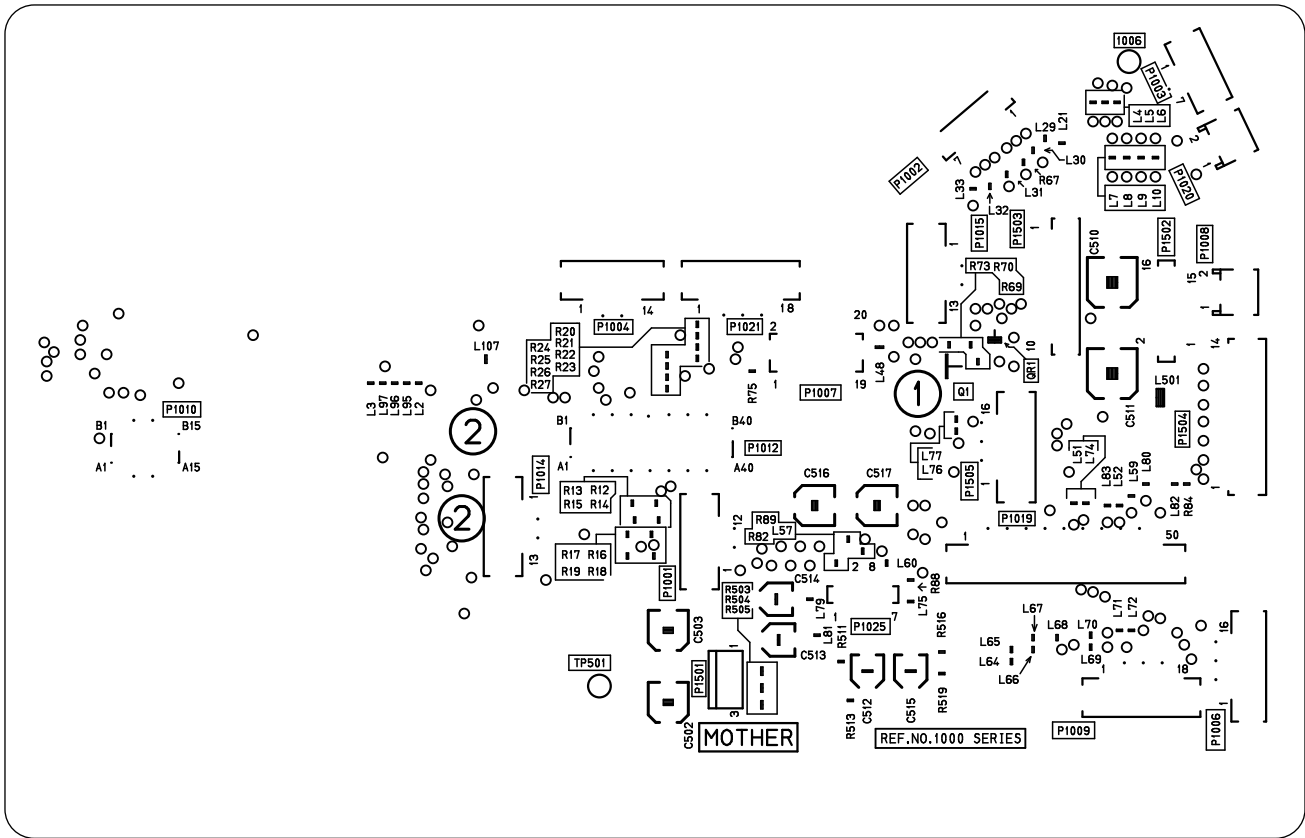
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C2038	B-5	Ⓢ	C3203	C-6	Ⓢ	C4001	A-2	Ⓢ	R603	C-6	Ⓢ	R2014	B-3	Ⓢ	R2103	A-2	Ⓢ	R3056	D-6	Ⓢ	R3842	C-5	Ⓢ		
C2040	B-5	Ⓢ	C3204	C-6	Ⓢ	C4002	A-2	Ⓢ	R604	C-7	Ⓢ	R2015	A-5	Ⓢ	R2104	B-2	Ⓢ	R3057	B-2	Ⓢ	R3844	C-5	Ⓢ		
C2041	B-4	Ⓢ	C3205	C-6	Ⓢ	C4003	B-6	Ⓢ	R605	C-4	Ⓢ	R2016	A-5	Ⓢ	R2106	B-3	Ⓢ	R3058	B-2	Ⓢ	R3845	B-6	Ⓢ		
C2042	B-4	Ⓢ	C3206	C-6	Ⓢ	C4004	A-6	Ⓢ	R606	C-7	Ⓢ	R2017	B-5	Ⓢ	R2107	A-4	Ⓢ	R3059	B-2	Ⓢ	R4001	A-7	Ⓢ		
C2199	B-4	Ⓢ	C3207	C-6	Ⓢ	C4005	B-6	Ⓢ	R607	C-7	Ⓢ	R2018	A-5	Ⓢ	R2108	A-3	Ⓢ	R3060	C-5	Ⓢ	R4002	A-2	Ⓢ		
C3002	B-3	Ⓢ	C3208	B-6	Ⓢ	C4006	A-6	Ⓢ	R608	C-2	Ⓢ	R2019	A-5	Ⓢ	R2109	A-4	Ⓢ	R3061	B-2	Ⓢ	R4003	B-6	Ⓢ		
C3003	D-4	Ⓢ	C3209	A-5	Ⓢ	C4007	B-7	Ⓢ	R609	C-2	Ⓢ	R2020	B-5	Ⓢ	R2110	A-4	Ⓢ	R3062	B-4	Ⓢ	R4004	A-6	Ⓢ		
C3004	D-3	Ⓢ	C3210	A-3	Ⓢ	C4011	A-6	Ⓢ	R610	D-5	Ⓢ	R2021	B-5	Ⓢ	R2113	B-3	Ⓢ	R3075	D-4	Ⓢ	R4011	B-6	Ⓢ		
C3005	D-3	Ⓢ	C3211	A-3	Ⓢ	C4012	B-2	Ⓢ	R611	D-5	Ⓢ	R2022	B-5	Ⓢ	R2114	B-3	Ⓢ	R3076	D-5	Ⓢ	R4012	A-6	Ⓢ		
C3006	C-3	Ⓢ	C3212	A-3	Ⓢ	C4013	B-6	Ⓢ	R612	C-2	Ⓢ	R2023	A-3	Ⓢ	R2115	B-4	Ⓢ	R3078	D-5	Ⓢ	R4013	B-6	Ⓢ		
C3007	D-4	Ⓢ	C3213	A-3	Ⓢ	C4014	A-6	Ⓢ	R613	C-1	Ⓢ	R2024	A-2	Ⓢ	R2116	B-5	Ⓢ	R3079	D-4	Ⓢ	R4014	A-6	Ⓢ		
C3008	C-4	Ⓢ	C3214	B-3	Ⓢ	C4015	A-2	Ⓢ	R614	C-5	Ⓢ	R2025	A-2	Ⓢ	R2117	B-3	Ⓢ	R3083	C-2	Ⓢ	R4015	A-2	Ⓢ		
C3009	C-4	Ⓢ	C3215	A-3	Ⓢ	C4016	A-2	Ⓢ	R615	C-4	Ⓢ	R2026	A-2	Ⓢ	R2118	A-3	Ⓢ	R3085	B-2	Ⓢ	R4016	A-2	Ⓢ		
C3010	B-2	Ⓢ	C3216	B-3	Ⓢ	C4201	A-6	Ⓢ	R616	D-4	Ⓢ	R2027	A-4	Ⓢ	R2119	C-4	Ⓢ	R3086	C-4	Ⓢ	R4017	A-2	Ⓢ		
C3011	C-2	Ⓢ	C3217	B-3	Ⓢ	C4202	B-6	Ⓢ	R617	C-3	Ⓢ	R2028	A-4	Ⓢ	R2121	A-5	Ⓢ	R3090	D-3	Ⓢ	R4018	A-2	Ⓢ		
C3012	B-2	Ⓢ	C3218	B-3	Ⓢ	C4203	B-6	Ⓢ	R619	D-4	Ⓢ	R2029	A-5	Ⓢ	R2122	B-5	Ⓢ	R3091	D-3	Ⓢ	R4021	B-1	Ⓢ		
C3013	C-2	Ⓢ	C3219	B-3	Ⓢ	C4204	B-6	Ⓢ	R621	D-4	Ⓢ	R2031	B-4	Ⓢ	R2123	A-5	Ⓢ	R3094	D-5	Ⓢ	R4022	A-7	Ⓢ		
C3015	D-5	Ⓢ	C3220	B-3	Ⓢ	C4205	B-6	Ⓢ	R622	D-4	Ⓢ	R2033	B-5	Ⓢ	R2124	A-5	Ⓢ	R3203	B-3	Ⓢ	R4201	A-6	Ⓢ		
C3016	C-3	Ⓢ	C3221	B-3	Ⓢ	C4206	B-6	Ⓢ	R623	D-4	Ⓢ	R2034	A-4	Ⓢ	R2125	A-5	Ⓢ	R3204	B-5	Ⓢ	R4202	A-6	Ⓢ		
C3017	C-4	Ⓢ	C3222	B-3	Ⓢ	C4207	B-5	Ⓢ	R624	D-4	Ⓢ	R2035	B-6	Ⓢ	R2126	A-5	Ⓢ	R3205	B-2	Ⓢ	R4203	A-6	Ⓢ		
C3018	D-5	Ⓢ	C3223	B-3	Ⓢ	C4208	B-5	Ⓢ	R625	D-4	Ⓢ	R2036	A-6	Ⓢ	R2127	A-3	Ⓢ	R3206	B-3	Ⓢ	R4204	A-6	Ⓢ		
C3019	B-3	Ⓢ	C3224	B-6	Ⓢ	C4209	B-5	Ⓢ	R626	D-4	Ⓢ	R2037	A-4	Ⓢ	R2128	A-3	Ⓢ	R3207	B-2	Ⓢ	R4205	A-6	Ⓢ		
C3020	D-3	Ⓢ	C3225	B-2	Ⓢ	C4210	B-5	Ⓢ	R629	D-4	Ⓢ	R2038	B-6	Ⓢ	R2129	B-4	Ⓢ	R3208	B-2	Ⓢ	R4211	B-6	Ⓢ		
C3021	D-5	Ⓢ	C3226	B-3	Ⓢ	C4211	B-5	Ⓢ	R631	D-4	Ⓢ	R2039	B-6	Ⓢ	R2130	B-5	Ⓢ	R3209	A-2	Ⓢ	R4501	C-4	Ⓢ		
C3022	D-5	Ⓢ	C3227	B-2	Ⓢ	C4212	B-4	Ⓢ	R634	C-4	Ⓢ	R2040	B-2	Ⓢ	R2133	B-5	Ⓢ	R3210	A-2	Ⓢ	R4502	B-3	Ⓢ		
C3023	D-4	Ⓢ	C3228	B-2	Ⓢ	C4213	B-2	Ⓢ	R635	D-4	Ⓢ	R2041	B-4	Ⓢ	R2134	B-5	Ⓢ	R3211	A-2	Ⓢ	R4503	B-3	Ⓢ		
C3024	D-6	Ⓢ	C3229	A-2	Ⓢ	C4214	B-5	Ⓢ	R636	D-4	Ⓢ	R2042	B-2	Ⓢ	R2135	D-7	Ⓢ	R3212	A-3	Ⓢ	R4504	B-4	Ⓢ		
C3026	C-2	Ⓢ	C3230	A-2	Ⓢ	C4215	B-5	Ⓢ	R637	D-4	Ⓢ	R2043	A-3	Ⓢ	R2136	D-6	Ⓢ	R3213	C-5	Ⓢ	R4506	B-3	Ⓢ		
C3027	D-3	Ⓢ	C3231	A-2	Ⓢ	C4218	A-5	Ⓢ	R638	C-3	Ⓢ	R2044	B-6	Ⓢ	R2137	D-6	Ⓢ	R3214	C-5	Ⓢ	R4507	B-4	Ⓢ		
C3028	D-5	Ⓢ	C3232	A-2	Ⓢ	C4219	B-5	Ⓢ	R639	D-4	Ⓢ	R2045	B-6	Ⓢ	R2138	B-5	Ⓢ	R3215	A-4	Ⓢ	R4701	A-7	Ⓢ		
C3030	D-5	Ⓢ	C3233	A-3	Ⓢ	C4501	C-4	Ⓢ	R640	C-5	Ⓢ	R2046	A-2	Ⓢ	R2139	B-2	Ⓢ	R3217	A-3	Ⓢ	R4702	A-7	Ⓢ		
C3035	D-5	Ⓢ	C3234	A-2	Ⓢ	C4502	C-3	Ⓢ	R642	C-4	Ⓢ	R2047	B-4	Ⓢ	R2140	B-2	Ⓢ	R3218	A-3	Ⓢ	R4704	A-7	Ⓢ		
C3036	D-4	Ⓢ	C3235	A-3	Ⓢ	C4503	C-3	Ⓢ	R644	C-4	Ⓢ	R2048	B-5	Ⓢ	R2141	B-5	Ⓢ	R3219	B-3	Ⓢ	R4705	A-7	Ⓢ		
C3037	D-4	Ⓢ	C3236	A-3	Ⓢ	C4504	C-3	Ⓢ	R645	D-4	Ⓢ	R2049	A-5	Ⓢ	R2142	B-6	Ⓢ	R3220	A-2	Ⓢ	R4707	A-1	Ⓢ		
C3038	D-5	Ⓢ	C3237	A-3	Ⓢ	C4505	C-3	Ⓢ	R646	D-4	Ⓢ	R2050	B-4	Ⓢ	R2143	B-1	Ⓢ	R3221	A-2	Ⓢ	R4708	A-1	Ⓢ		
C3039	D-4	Ⓢ	C3238	A-5	Ⓢ	C4506	C-3	Ⓢ	R647	D-4	Ⓢ	R2052	A-5	Ⓢ	R2199	B-4	Ⓢ	R3222	C-6	Ⓢ	R4709	A-1	Ⓢ		
C3040	D-3	Ⓢ	C3239	B-3	Ⓢ	C4507	C-3	Ⓢ	R648	C-4	Ⓢ	R2053	A-5	Ⓢ	R3001	D-3	Ⓢ	R3223	C-5	Ⓢ	R4710	A-1	Ⓢ		
C3041	D-3	Ⓢ	C3240	B-3	Ⓢ	C4508	C-3	Ⓢ	R649	C-4	Ⓢ	R2054	B-2	Ⓢ	R3002	D-2	Ⓢ	R3224	B-3	Ⓢ	R4711	A-1	Ⓢ		
C3042	D-5	Ⓢ	C3241	B-3	Ⓢ	C4509	B-4	Ⓢ	R650	C-4	Ⓢ	R2055	B-3	Ⓢ	R3003	B-4	Ⓢ	R3225	A-5	Ⓢ	R4712	A-1	Ⓢ		
C3043	C-5	Ⓢ	C3242	B-3	Ⓢ	C4510	B-4	Ⓢ	R651	C-3	Ⓢ	R2056	B-4	Ⓢ	R3004	D-5	Ⓢ	R3226	B-3	Ⓢ	R4798	A-1	Ⓢ		
C3044	C-5	Ⓢ	C3243	C-3	Ⓢ	C4511	B-3	Ⓢ	R652	C-3	Ⓢ	R2057	B-2	Ⓢ	R3005	B-1	Ⓢ	R3227	A-2	Ⓢ	R4799	A-2	Ⓢ		
C3045	C-3	Ⓢ	C3244	B-3	Ⓢ	C4512	C-3	Ⓢ	R653	C-3	Ⓢ	R2058	A-2	Ⓢ	R3006	D-4	Ⓢ	R3228	C-6	Ⓢ	R6503	C-7	Ⓢ		
C3046	C-5	Ⓢ	C3245	A-2	Ⓢ	C4513	B-5	Ⓢ	R656	D-3	Ⓢ	R2059	A-5	Ⓢ	R3008	D-5	Ⓢ	R3229	B-7	Ⓢ	R6504	A-2	Ⓢ		
C3047	C-5	Ⓢ	C3246	B-2	Ⓢ	C4514	B-4	Ⓢ	R657	C-4	Ⓢ	R2060	A-2	Ⓢ	R3009	D-5	Ⓢ	R3230	B-2	Ⓢ	R6505	B-6	Ⓢ		
C3048	C-3	Ⓢ	C3247	A-3	Ⓢ	C4515	B-4	Ⓢ	R658	D-3	Ⓢ	R2061	A-3	Ⓢ	R3010	D-5	Ⓢ	R3231	A-5	Ⓢ	R6506	A-6	Ⓢ		
C3050	C-3	Ⓢ	C3248	A-3	Ⓢ	C4701	A-1	Ⓢ	R659	C-2	Ⓢ	R2062	A-2	Ⓢ	R3011	D-5	Ⓢ	R3232	A-3	Ⓢ	R6510	A-5	Ⓢ		
C3051	C-3	Ⓢ	C3249	B-3	Ⓢ	C4702	A-1	Ⓢ	R661	D-3	Ⓢ	R2063	A-3	Ⓢ	R3012	D-5	Ⓢ	R3233	B-3	Ⓢ	R6515	A-6	Ⓢ		
C3053	C-3	Ⓢ	C3250	B-5	Ⓢ	C4704	A-7	Ⓢ	R663	D-3	Ⓢ	R2064	A-3	Ⓢ	R3013	D-5	Ⓢ	R3234	A-2	Ⓢ	Resistor Array				
C3054	C-3	Ⓢ	C3251	B-3	Ⓢ	C4705	A-2	Ⓢ	R664	D-2	Ⓢ	R2065	A-3	Ⓢ	R3014	C-3	Ⓢ	R3235	A-4	Ⓢ					
C3055	C-3	Ⓢ	C3252	B-3	Ⓢ	C4706	A-2	Ⓢ	R665	D-2	Ⓢ	R2066	A-5	Ⓢ	R3016	D-3	Ⓢ	R3236	A-4	Ⓢ	RA2001	B-4	Ⓢ		
C3056	D-5	Ⓢ	C3253	B-3	Ⓢ	C4798	A-2	Ⓢ	R666	D-2	Ⓢ	R2067	A-5	Ⓢ	R3017										

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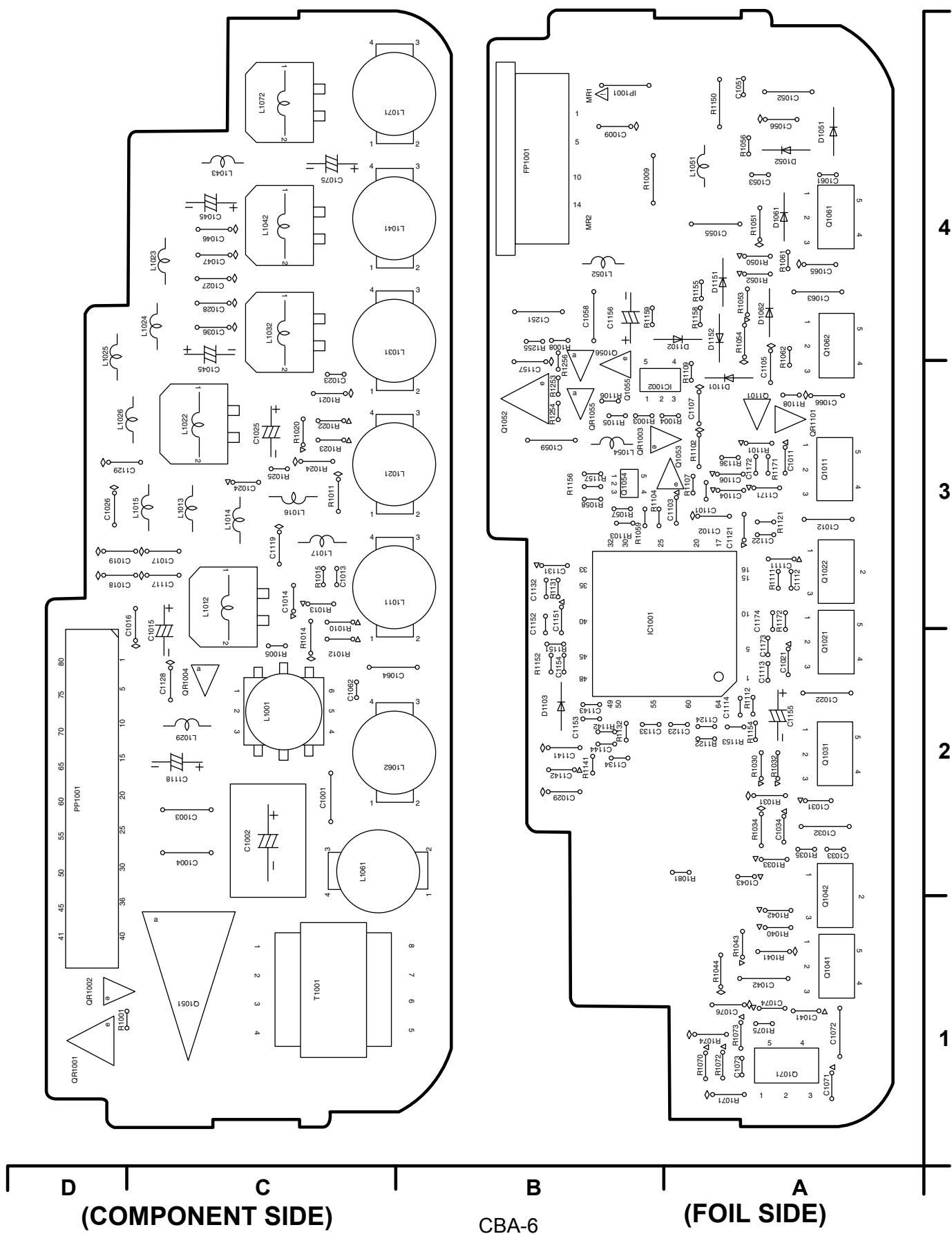
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MOTHER C.B.A (VEP000T6A)



(COMPONENT SIDE)

POWER C.B.A (VEP01801C)



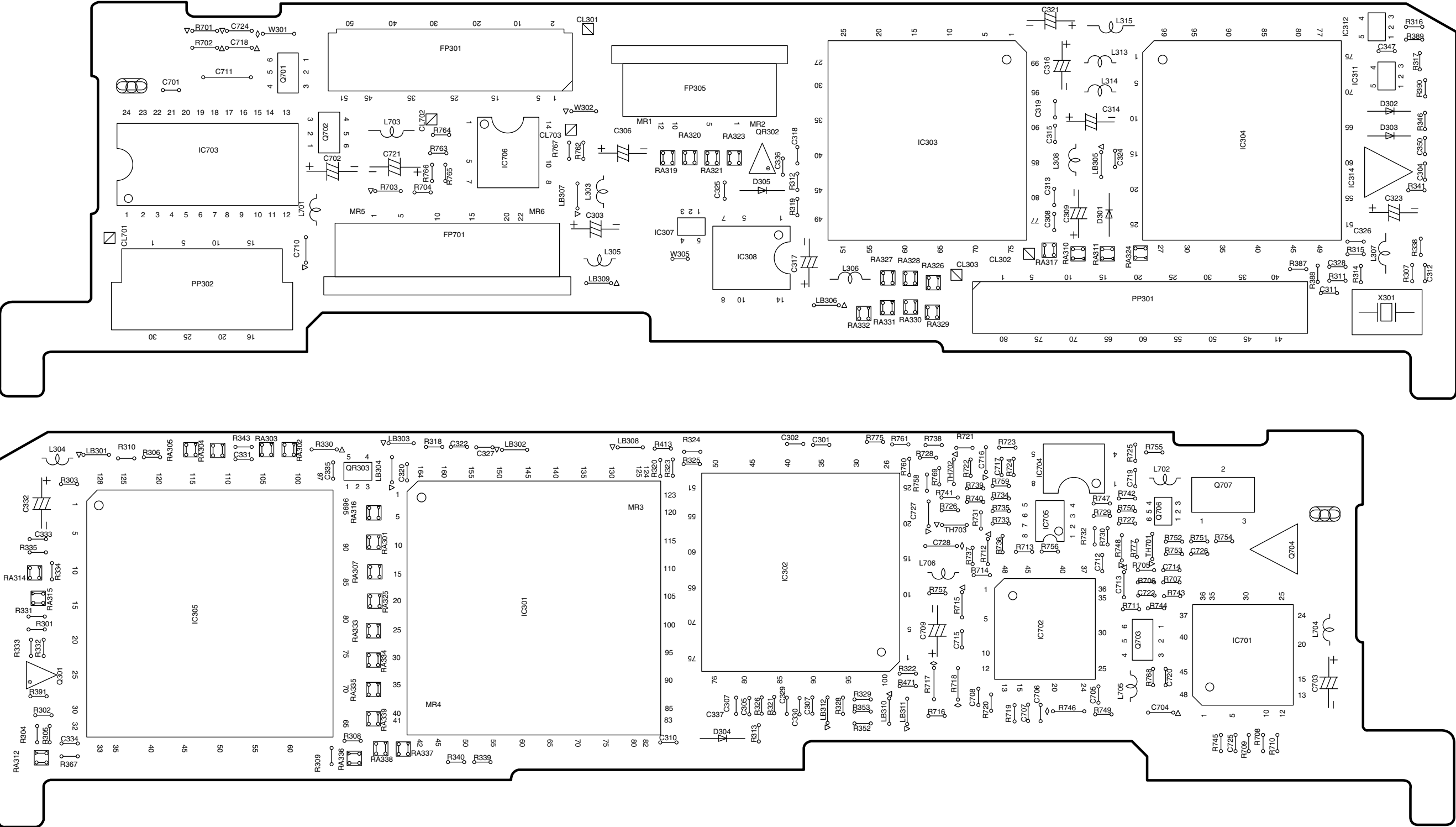
Transistor	
Q2201	D-2
Q2202	D-2

Connector	
FP2202	A-2
FP2203	A-1
FP2204	D-1
PS2201	A-3

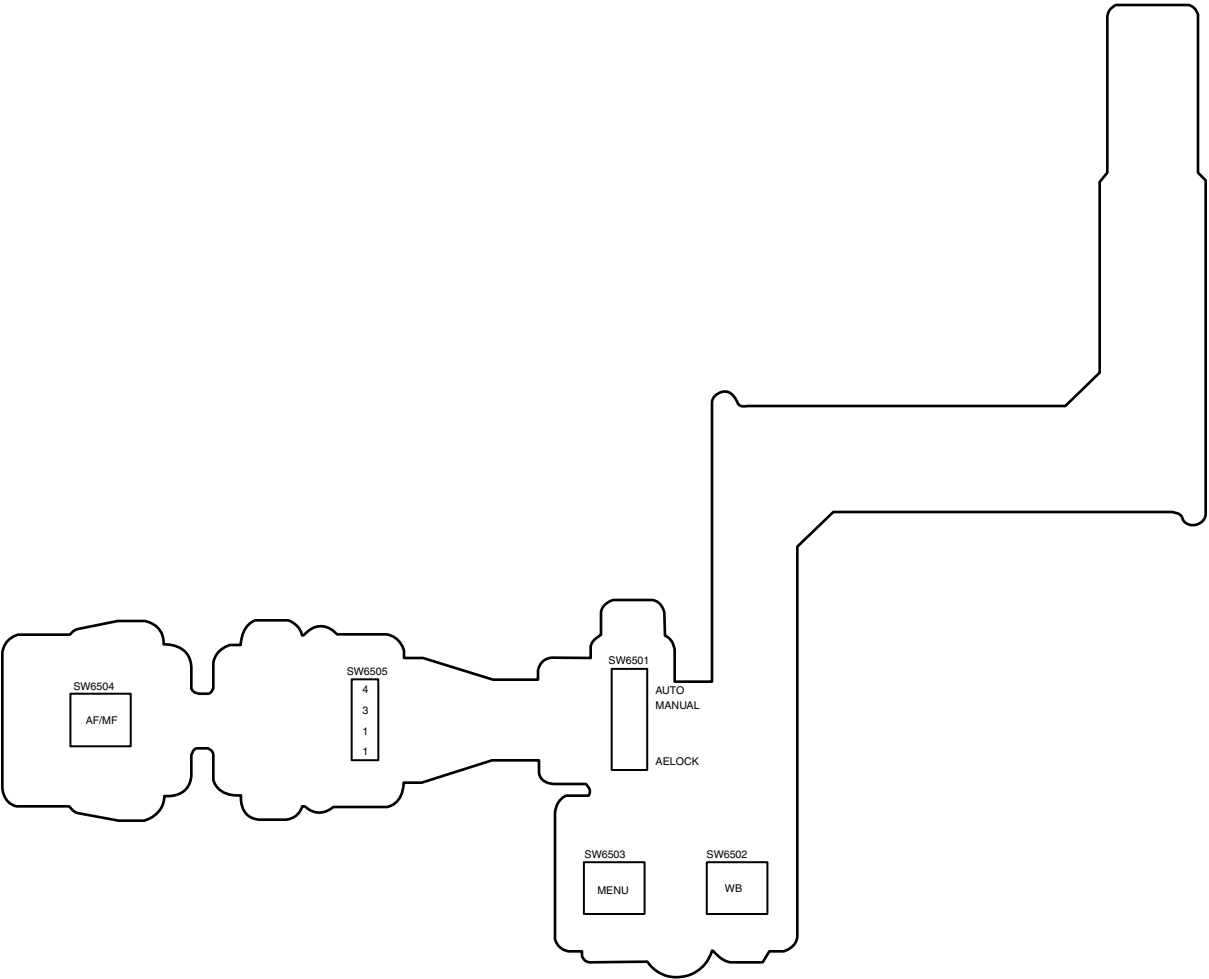
Capacitor	
C2201	D-2
C2202	D-2
C2203	D-2
C2204	D-2
C2205	D-2
C2207	D-2
C2208	D-1
C2209	C-1
C2210	C-1
C2211	C-1
C2212	B-2
C2213	B-2
C2214	C-2
C2215	B-3
C2217	B-2
C2218	B-2
C2219	B-2
C2220	B-2
C2223	C-2
C2226	B-2
C2227	C-2
C2230	D-2
C2231	D-2
C2232	D-2
C2233	D-2
C2234	D-2
C2235	A-1
C2236	A-1
C2237	A-1
C2238	D-3

DRIVE C.B.A.			
Integrated Circuit		C2239	D-3
IC2201	C-2	C2240	D-2
IC2202	B-1	C2245	D-2
IC2203	B-2	C2246	D-2
IC2204	D-2	C2247	A-2
IC2205	D-2	C2248	A-1
IC2206	D-2	C2249	A-1
IC2207	D-1	C2250	B-3
		C2251	D-2
Transistor		C2255	E-2
Q2201	D-2	C2256	E-2
Q2202	D-2	C2257	D-1
Connector		Resistor	
FP2202	A-2	R2201	D-2
FP2203	A-1	R2202	D-2
FP2204	D-1	R2204	D-2
PS2201	A-3	R2205	D-2
Capacitor		R2207	D-1
C2201	D-2	R2208	C-1
C2202	D-2	R2209	C-1
C2203	D-2	R2210	D-2
C2204	D-2	R2211	D-2
C2205	D-2	R2212	C-2
C2207	D-2	R2213	B-2
C2208	D-1	R2214	B-2
C2209	C-1	R2215	D-2
C2210	C-1	R2216	D-2
C2211	C-1	R2220	D-2
C2212	B-2	R2221	D-2
C2213	B-2	R2222	D-3
C2214	C-2	R2223	D-2
C2215	B-3	R2224	D-2
C2217	B-2	R2225	D-2
C2218	B-2	R2226	E-3
C2219	B-2	R2227	D-2
C2223	B-2	R2228	D-2
C2225	C-2	R2229	D-2
C2226	B-2	R2231	B-3
C2227	C-2	R2232	A-2
C2230	D-2	R2233	B-3
C2231	D-2	R2234	D-1
C2232	D-2	R2235	D-1
C2233	D-2	R2236	D-2
C2234	D-2	R2237	D-2
C2235	A-1	R2238	D-2
C2236	A-1	Resistor Array	
C2237	A-1	RA2201	B-2
C2238	D-3	RA2203	D-2

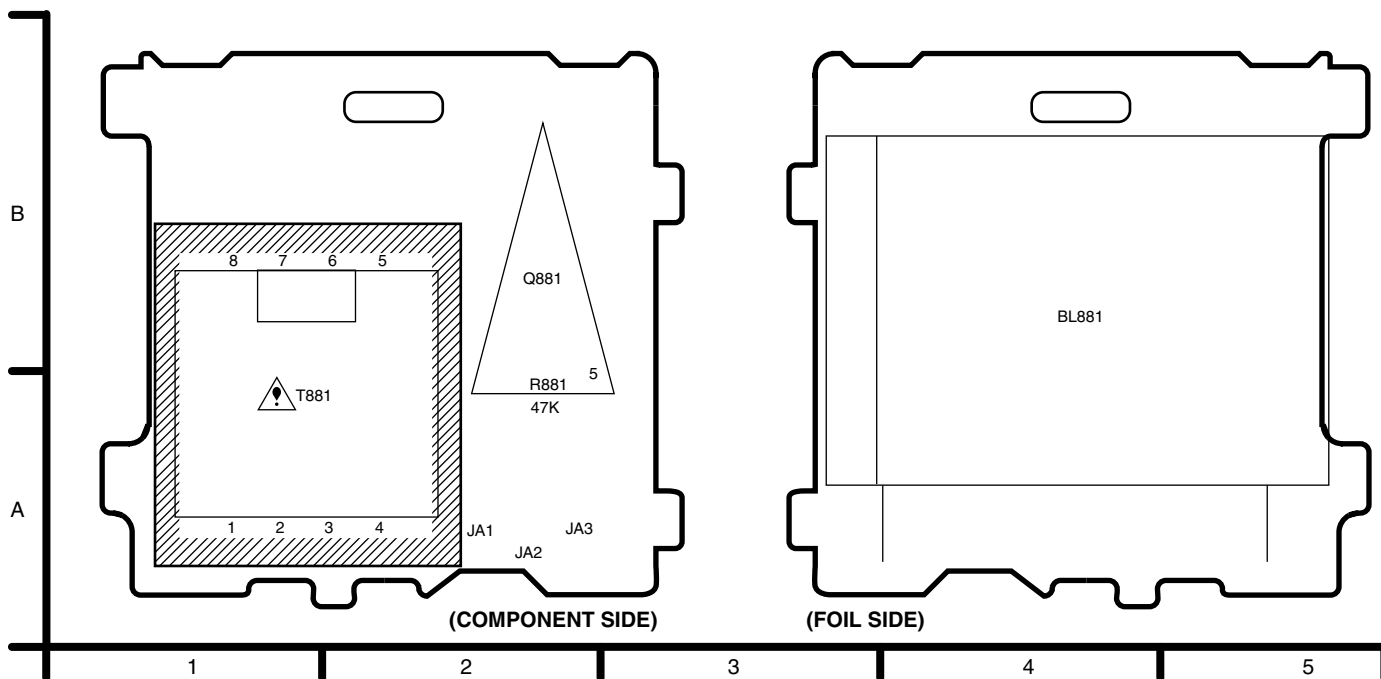
CAMERA MAIN C.B.A (VEP23443B)



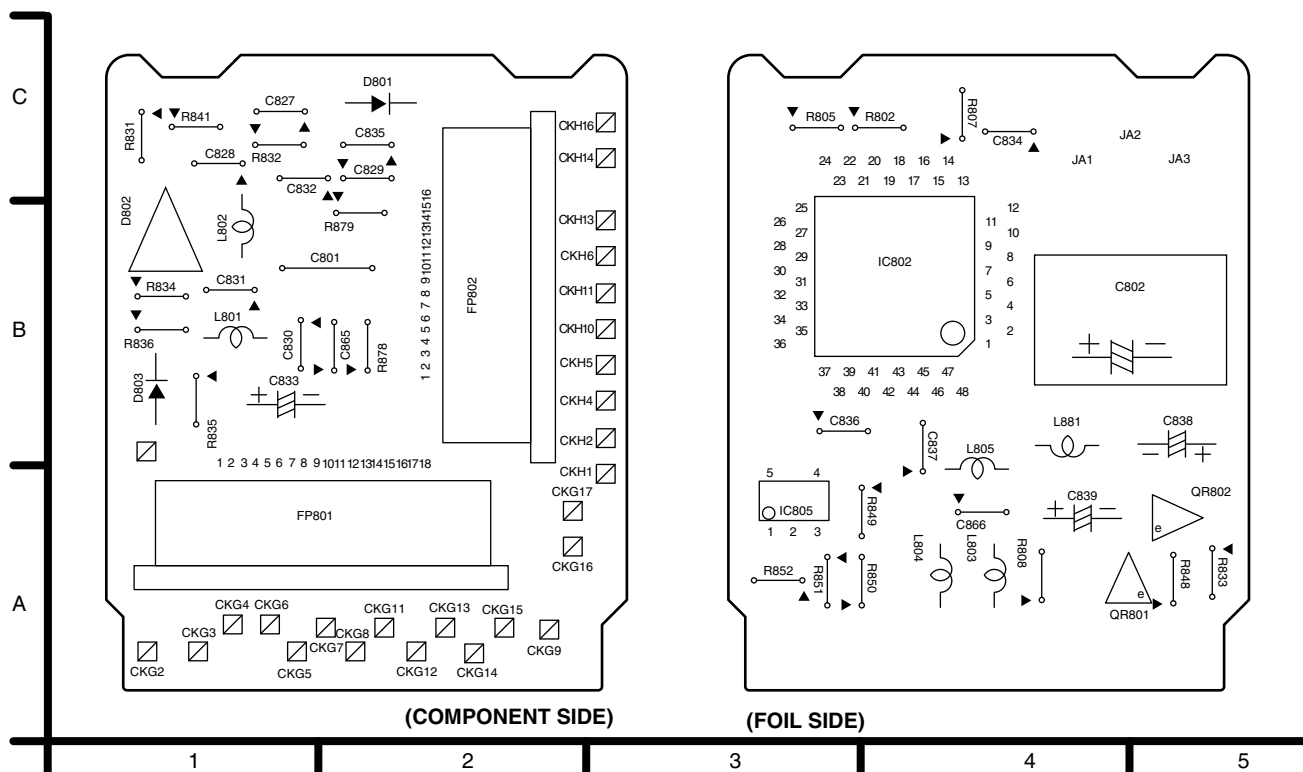
CAMERA OPERATION C.B.A (VEP20737B)



EVF (A) C.B.A (VEP28240D)

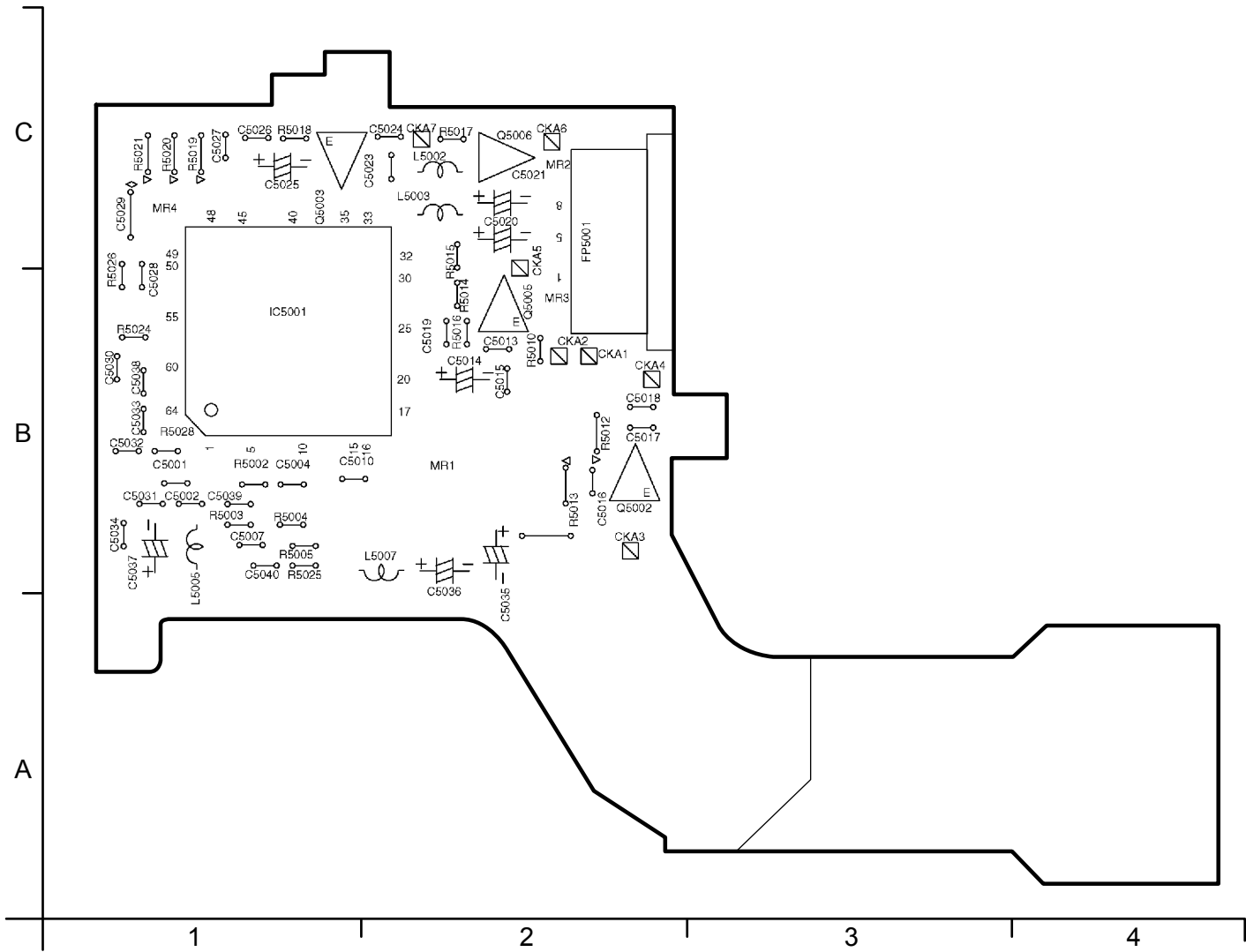


EVF (B) C.B.A (VEP28244B)

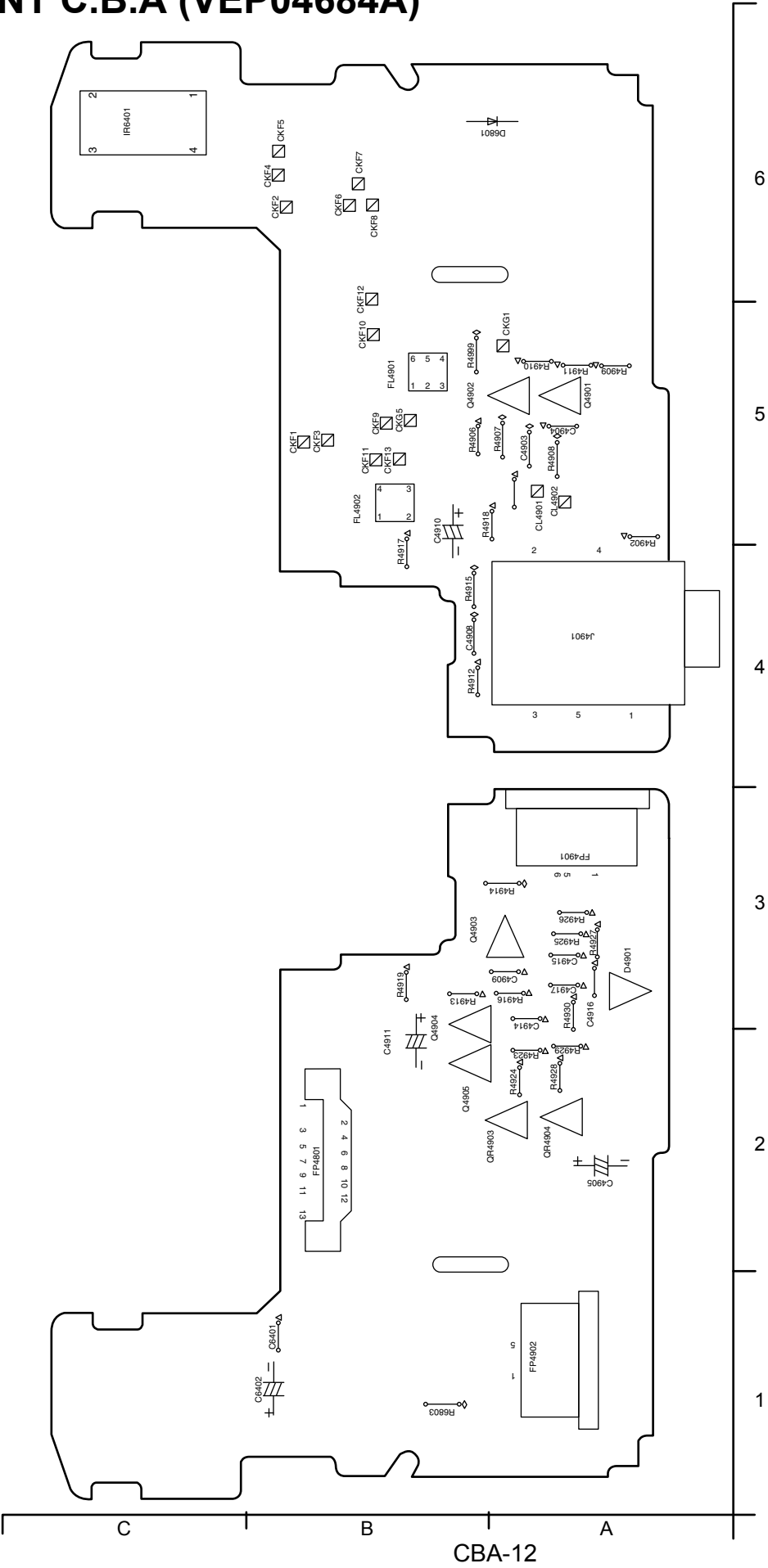


HEAD AMP C.B.A (VEP05352A)

HEAD/REC AMP C.B.A.									
Integrated Circuit		L5003	C-2	C5018	B-2	C5034	B-1	R5013	B-2
IC5001	B-1	L5005	B-1	C5019	B-2	C5035	B-2	R5014	C-2
Transistor		L5007	B-2	C5020	C-2	C5036	B-2	R5015	C-2
		Capacitor		C5021	C-2	C5037	B-1	R5016	B-2
		C5001	B-1	C5023	C-2	C5038	B-1	R5017	C-2
		C5002	B-1	C5024	C-2	C5039	B-1	R5018	C-1
Q5002	B-2	C5004	B-1	C5025	C-1	C5040	B-1	R5019	C-1
Q5003	C-1	C5007	B-1	C5026	C-1	Resistor		R5020	C-1
Q5005	B-2	C5010	B-1	C5027	C-1			R5021	C-1
Q5006	C-2	C5013	B-2	C5028	C-1	R5002	B-1	R5024	B-1
Connector		C5014	B-2	C5029	C-1	R5003	B-1	R5025	B-1
FP5001	C-2	C5015	B-2	C5030	B-1	R5004	B-1	R5026	C-1
Coil		C5016	B-2	C5031	B-1	R5005	B-1	R5028	B-1
L5002	C-2	C5017	B-2	C5032	B-1	R5010	B-2	R5029	B-2
				C5033	B-1	R5012	B-2		



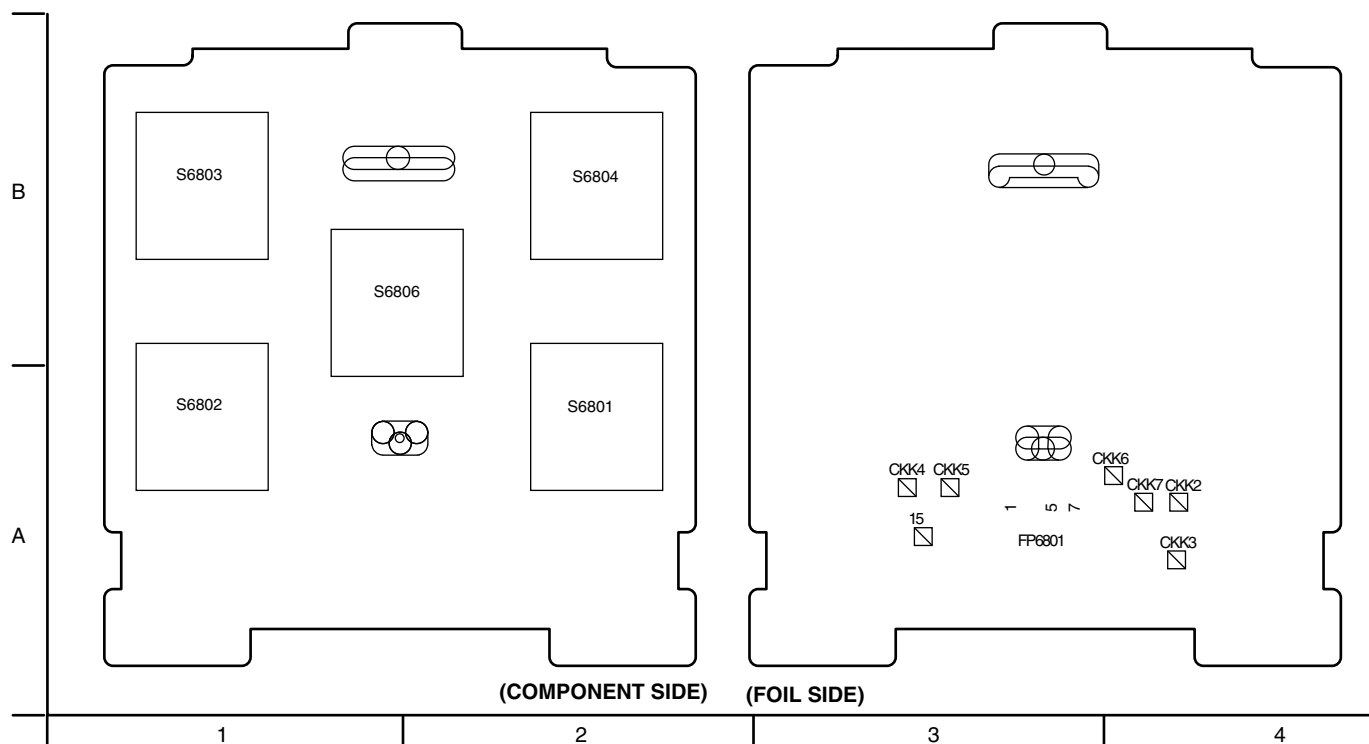
FRONT C.B.A (VEP04684A)



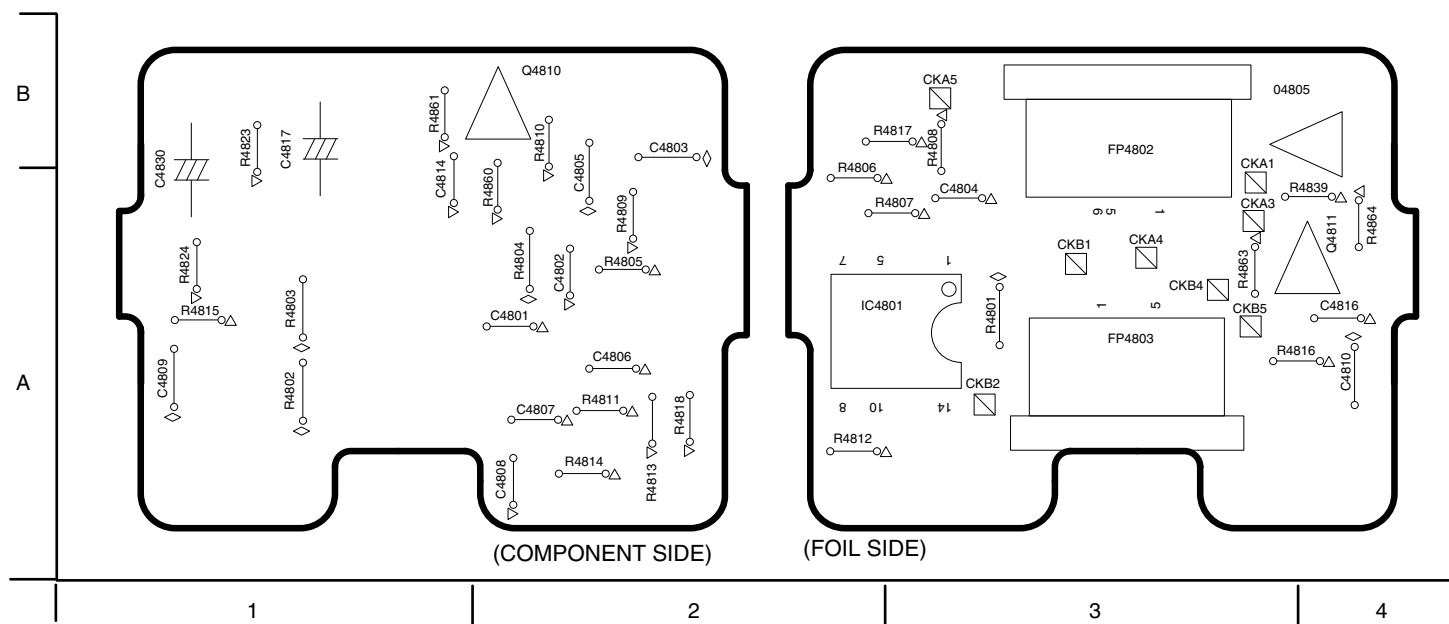
FRONT C.B.A.	
Transistor	
Q4901	A-5
Q4902	B-5
Q4903	B-3
Q4904	B-3
Q4905	B-2
Transistor & Resistor	
QR4903	A-2
QR4904	A-2
Connector	
FP4901	B-2
FP4901	A-3
FP4902	A-1

ADDRESS INFORMATION

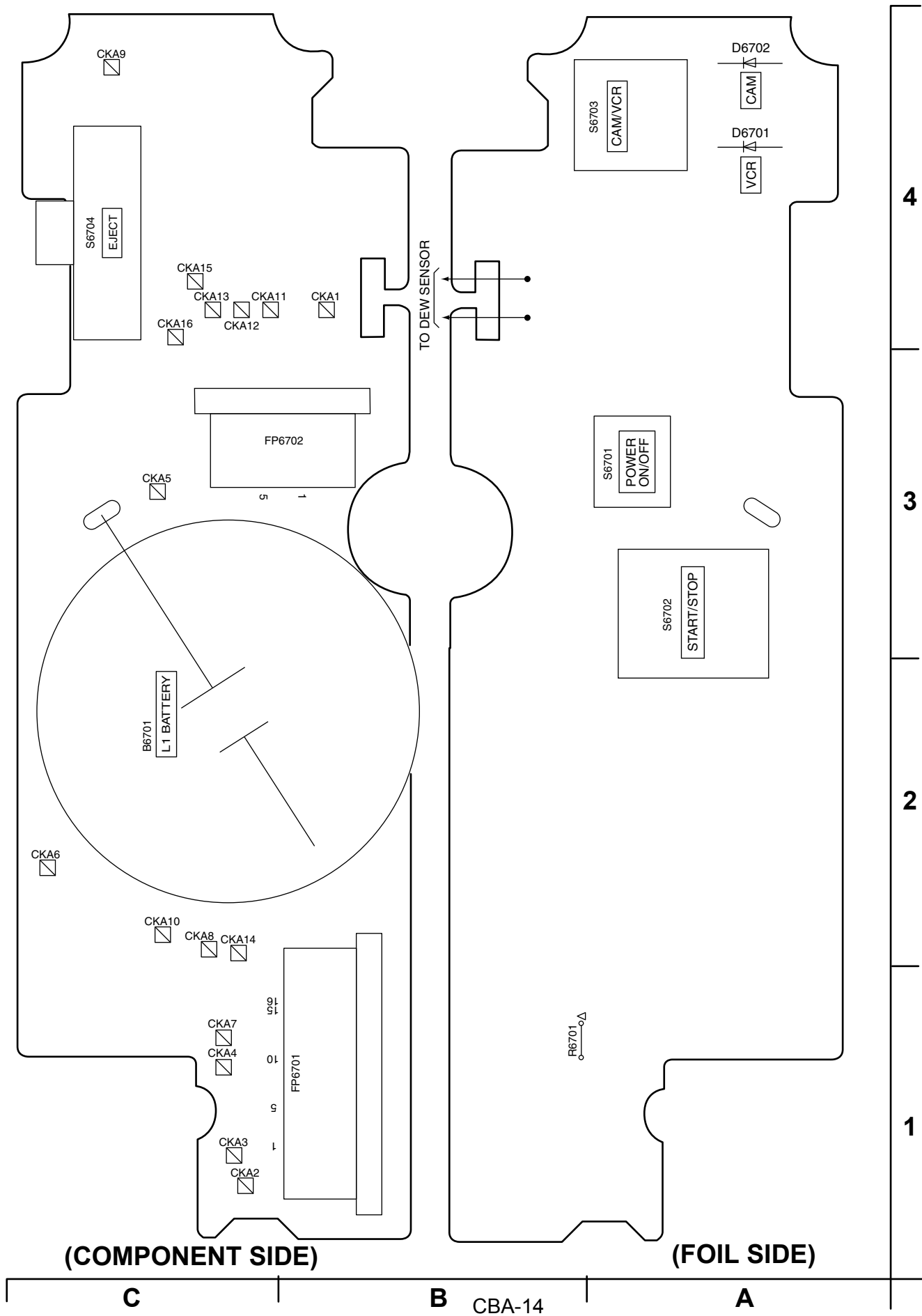
TOP OPERATION C.B.A (VEP06C24A)



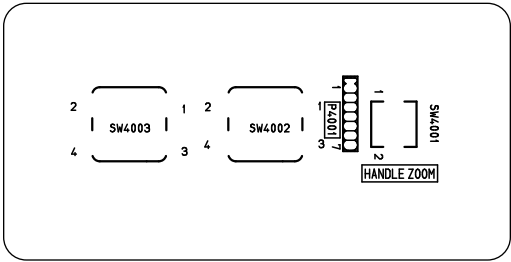
MIC C.B.A (VEP04693A)



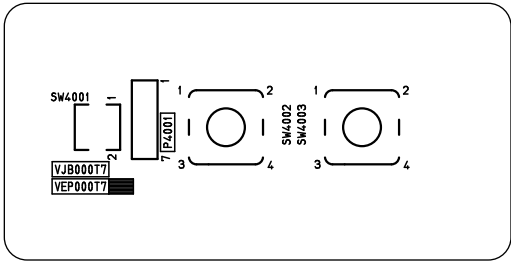
REAR OPERATION C.B.A (VEP06C37A)



ZOOM C.B.A (VEP000T7A)

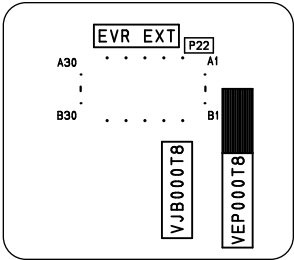


(FOIL SIDE)

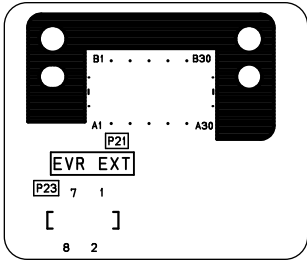


(COMPONENT SIDE)

EVR EXT C.B.A (VEP000T8A)

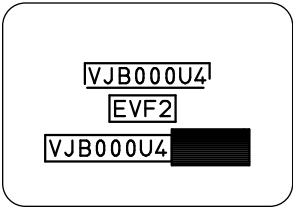


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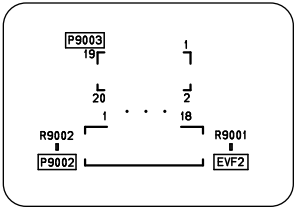


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EVR INT C.B.A (VEP000U4A)

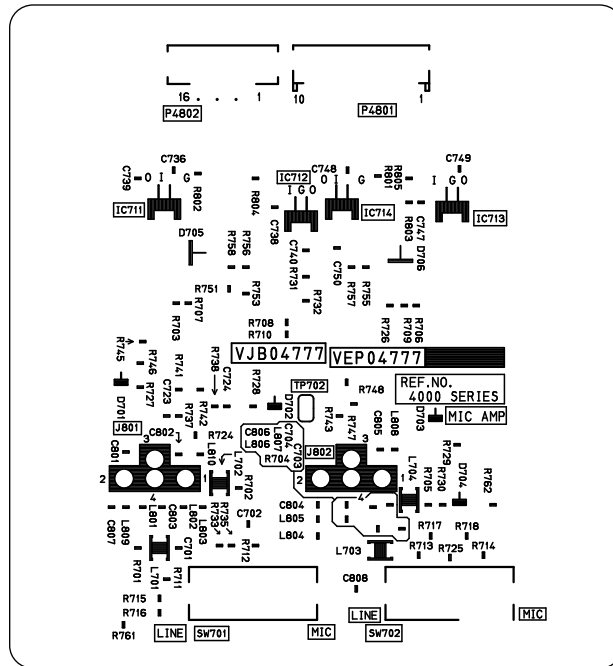


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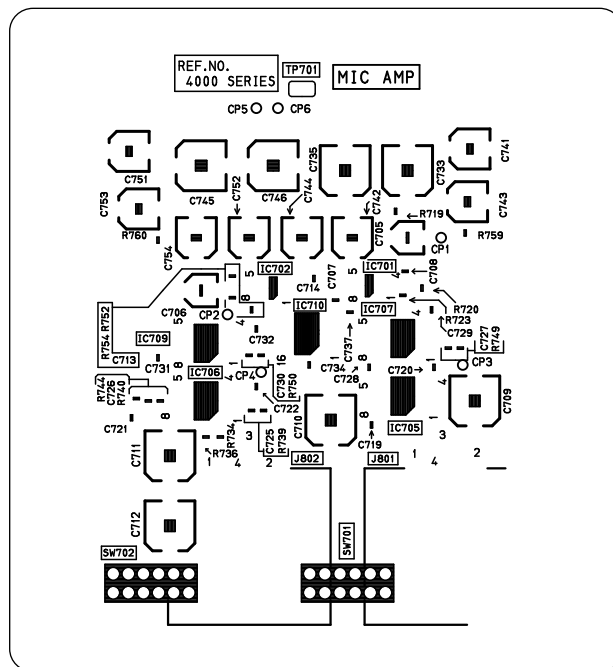


(COMPONENT SIDE)

MIC AMP C.B.A (VEP04777A)

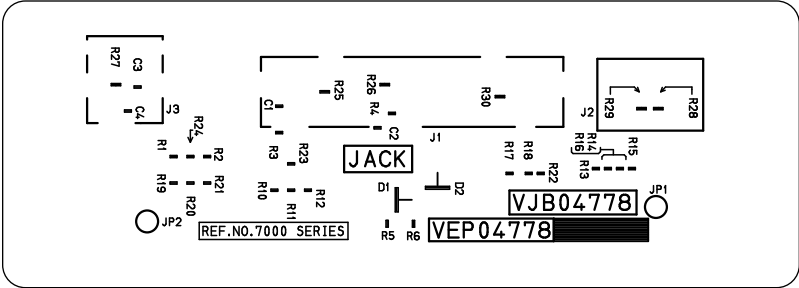


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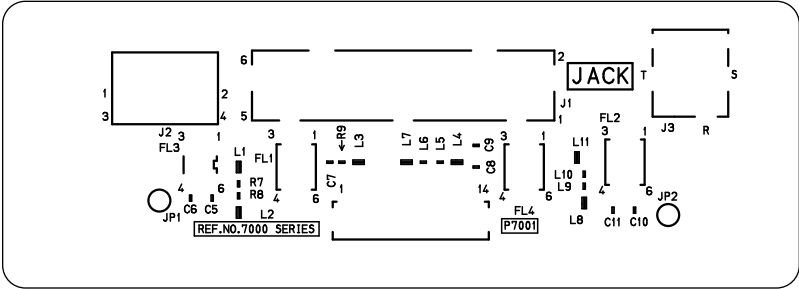


(COMPONENT SIDE)

JACK C.B.A (VEP04778A)

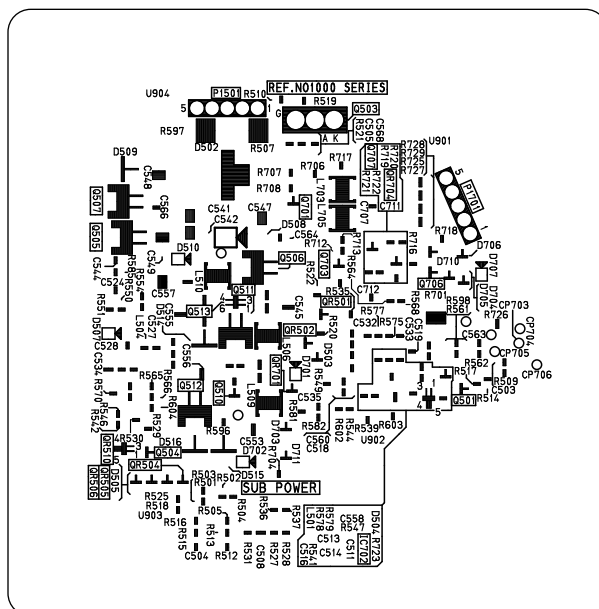


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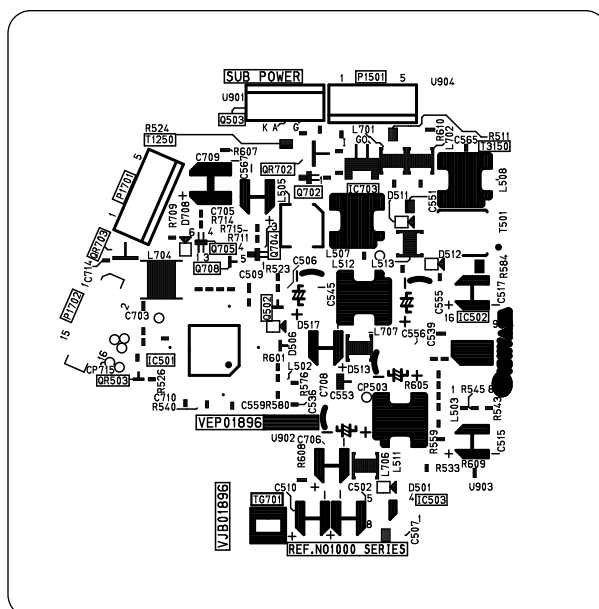


(COMPONENT SIDE)

SUB POWER C.B.A (VEP01896A)

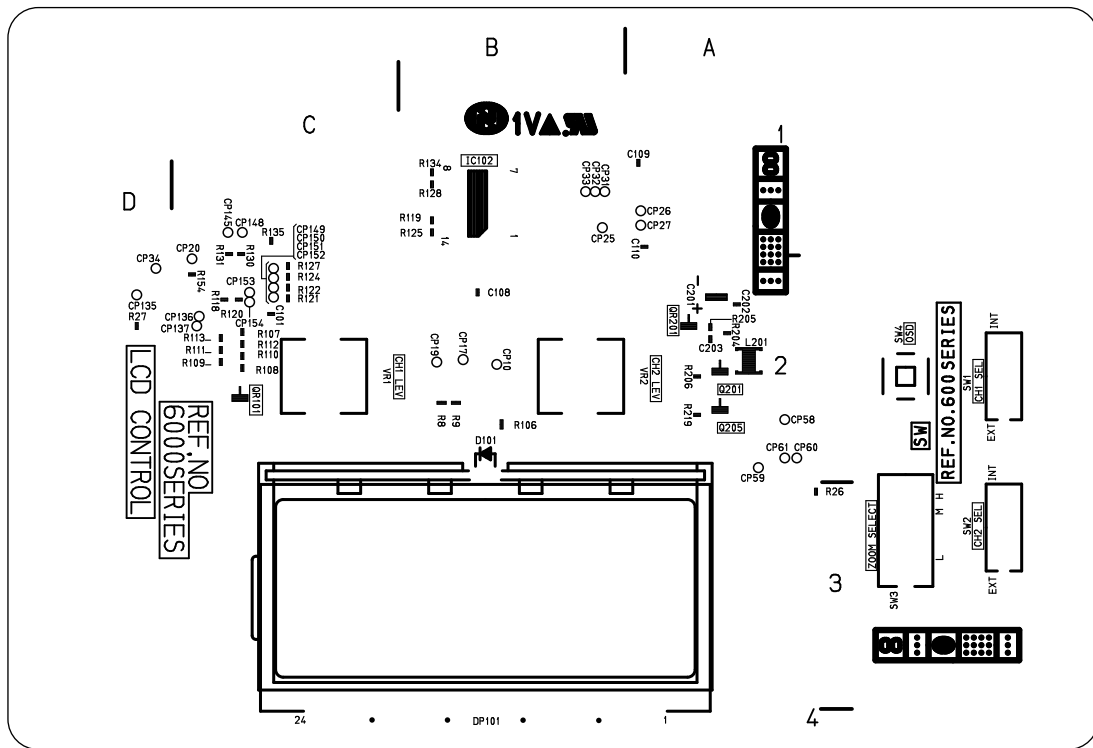


(FOIL SIDE)

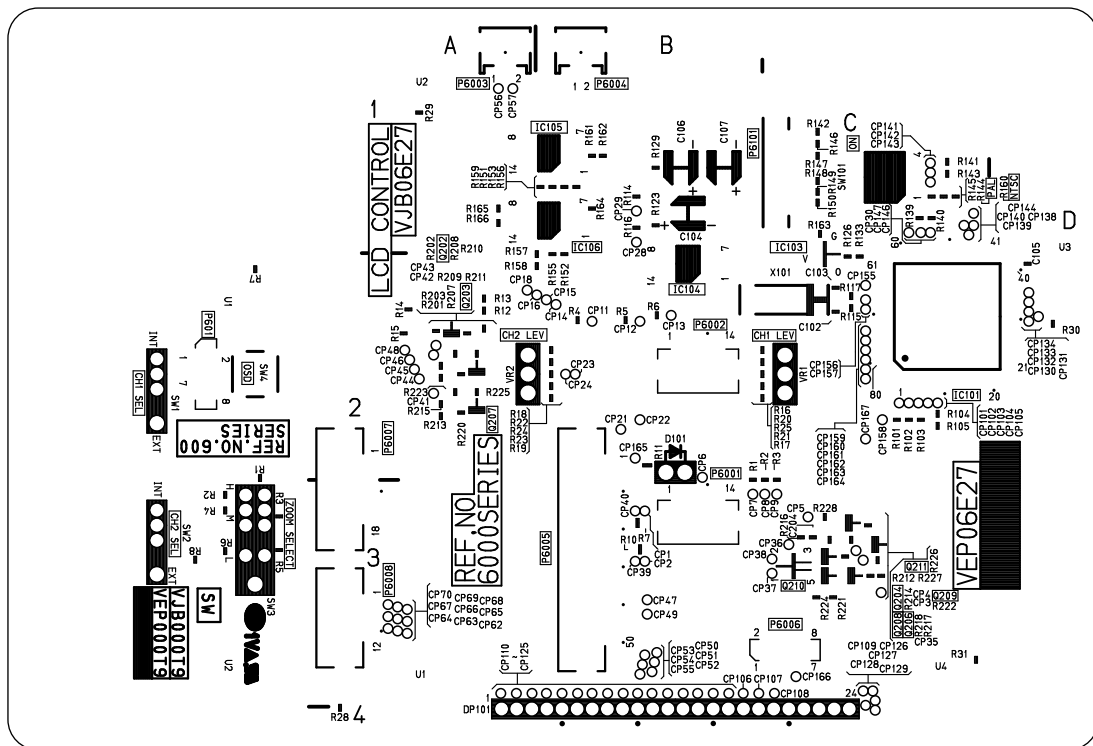


(COMPONENT SIDE)

SUB POWER C.B.A (VEP06E27A) SW C.B.A (VEP000T9A)



(FOIL SIDE)



(COMPONENT SIDE)

SECTION 8

EXPLODED VIEWS & REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ F.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked with (E) on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
Components identified with the mark Δ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
After the diacontinuation of this assembly in production, it will no longer be available.

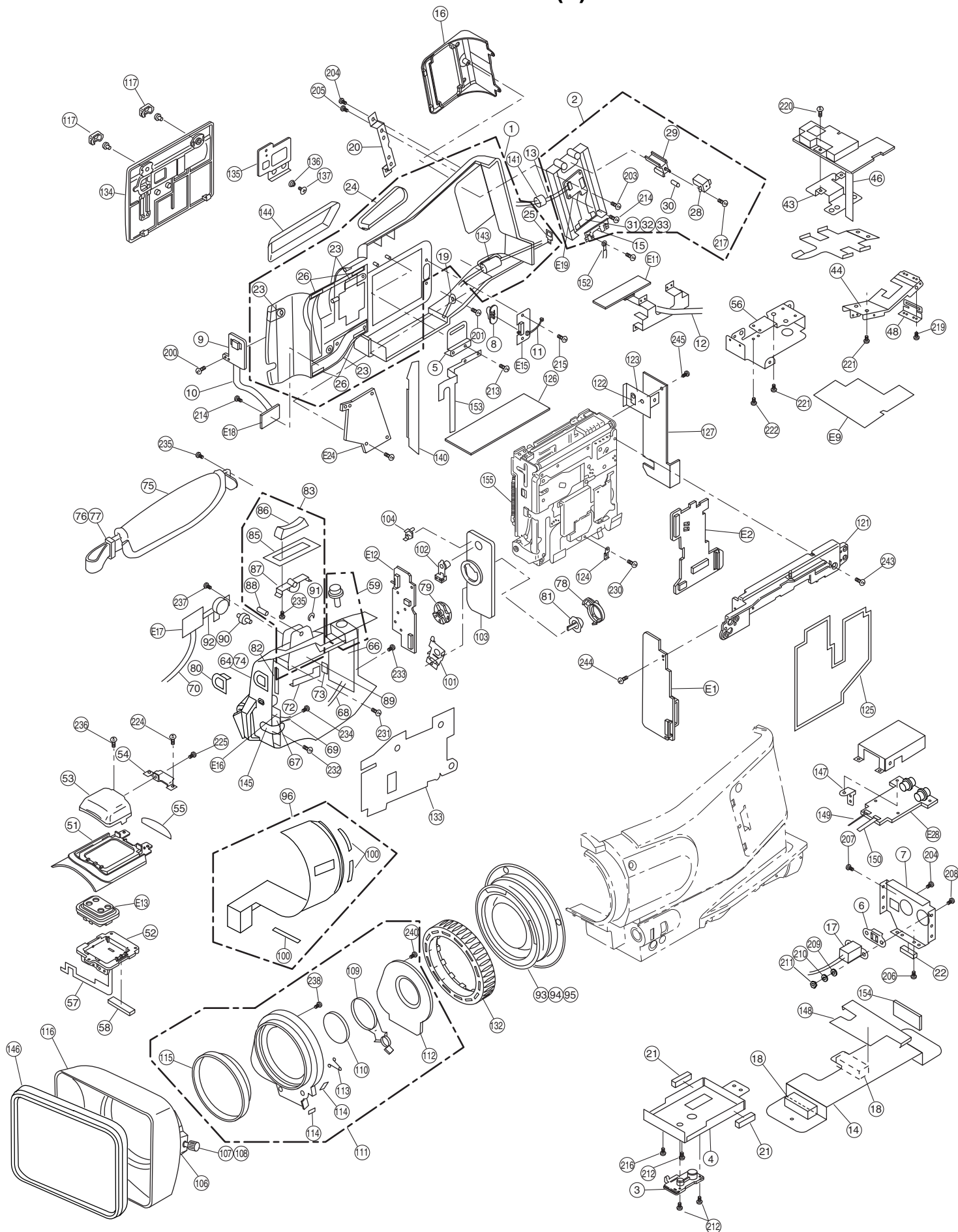
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LCD ASSEMBLY	PRT-9
PACKING PARTS ASSEMBLY.....	PRT-10
ELECTRICAL REPLACEMENT PARTS LIST	PRT-11

SERVICING FIXTURES & TOOLS

Ref.No	Part No.	Part Name & Description	Pcs	Remarks	Ref.No	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1173	14PIN EXTENDER CABLE	1		19	VFK1388	12PIN EXTENDER CABLE	1	
2	VFK1175	16PIN EXTENDER CABLE	1		20	VFK1389	26PIN EXTENDER CABLE	1	
3	VFK1176	13PIN EXTENDER CABLE	1		21	VFK1387	30PIN FLAT CABLE	1	
4	VFK1149A	POST DRIVER	1		22	VFK1286	16PIN EXTENDER CABLE	1	
5	VFM3000EDS	DV ALIGNMENT TAPE (LISTA)	1		23	VFK1282	22PIN EXTENDER CABLE	1	
6	VFM3110EDS	ALIGNMENT TAPE	1		24	VFK0913	18PIN EXTENDER CABLE	1	
7	VFK1266	GEAR DRIVER	1		25	VFK1659	STEP-UP RING (43MM-49MM)	1	
8	VFK1233	MECH. MEUTRAL PLATE	1		26	VFK1660	STEP-UP RING (49MM-62MM)	1	
9	VFK1217	TAPE END/BEG DET CASSETTE	1		27	VFK1694	EVR ADJUSTMENT SOFTWARE	1	
10	VFK1308P	MEASURING BOARD	1		28	VFK1341	CC FILTER (LB40)	1	
11	VFK1309	EVR CONNECTOR BOARD	1		29	VFK1343	CC FILTER (LA40)	1	
12	VFK1365	70PIN EXTENDER CABLE	1		30	VFK1347	CC FILTER (LB120)	1	
13	VFK1311	80PIN EXTENDER CABLE	1		31	YWV2100RB98	COLOR CHIP CHART	1	
14	VFK1367	50PIN EXTENDER CABLE	1		32	VFK1345	CC FILTER HOLDER	1	
15	VFK1284	24PIN EXTENDER CABLE	1		33	VFK1346	CC FILTER HOLDER RING	1	
16	VFK1317	30PIN FLAT CABLE	1		34	VFK1481B	LISTA SOFTWARE	1	
17	VJA0941	DC CABLE	1						
18	VFK1164TAR43	43.0MM ATTACHMENT RING	1						

FRAME & CASING PARTS ASSEMBLY (1)



FRAME & CASING PARTS ASSEMBLY (1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK9889	SIDE CASE L ASS'Y	1		101	VMC1271	S/S CLICK SPRING	1	
2	VYK9757	BATTERY HOLDER ASS'Y	1		102	VGU7576	VTR CHANGE BUTTON	1	
3	VMD2796	TRIPOD FRAME	1		103	VGQ6071	OPERATION P.C.B. PLATE	1	
4	VMP6654	TRIPOD FRAME ANGLE	1		104	VGL0764	VTR CHANGE PANEL	1	
5	VMP6652	BELT HOOK ANGLE (F)	1		106	VFC3571	LENZ HOOD ASS'Y	1	
6	VMC1685	CONNECTOR EARTH ANGLE	1		107	VHD1412	LENZ HOOD FIX SCREW	1	
7	VMP6847	DV TERMINAL ANGLE	1		108	XUC15FX	E-RING	1	
8	VGU7575	EJECT BUTTON	1		109	VGQ5993	ND HOLDER ASS'Y	1	
9	VYQ1447	AWT SENSOR ASS'Y	1		110	VDL1165	ND FILTER	1	
10	VWJ08E5070L0	FFC	1		111	VYQ2091	ND FILTER ASS'Y	1	
11	VEE0M08	EJECT CABLE	1		112	VKM5517	NDF CASE (R)	1	
12	VEE0N82	JACK CABLE	1		113	VMB3469	HOOK SPRING	1	
13	VEE0Q43	BATTERY CABLE	1		114	VMT1176	PAD	2	
14	VMP6848	WEIGHT ANGLE	1		115	VYQ2123	MC PROTECTOR	1	
15	VMP6742	BATTERY TERMINAL ANGLE	1		116	VKF3305	HOOD CAP	1	
16	VGQ5990	BATTERY CASE COVER	1		117	VGP4575	SCREW CAP	2	
17	VWK0175	DV CABLE	1		121	VYK7875	MECH FIXING PIECE ASS'Y	1	
18	VMT1182	CUSHION	2		122	EYHS77Y7	DEW SENSOR	1	
19	SHR330	CLAMPER	1		123	VMP6670	DEW HOLDER ANGLE	1	
20	VMP6749	BATTERY ANGLE	1		124	VMP6667	MECH HOLDER ANGLE	1	
21	VMT0776	GASKET (F)	2		125	VMZ2708	MECH SHIELD BARRIER	1	
22	VMT0876	GASKET	1		126	VGf0879	MECH SHIELD PLATE	1	
23	VSC5154	SIDE CASE SHIELD SHEET L	1		127	VGQ6149	DEW SENSOR PLATE	1	
24	VJF1417	CONNECTOR CAP	1		132	VMG1357	FOCUS RING	1	
25	VJF1418	DV CAP	1		133	VSC5267	GRIP SHIELD	1	
26	VMT0906	GASKET	4		134	VYF2740	CASSETTE COVER ASS'Y	1	
28	VGQ6037	BATTERY LOCK HOLDER	1		135	VMA0H90	CASSETTE HOLDER BASE	1	
29	VGU8749	BATTERY LOCK BUTTON	1		136	VMB3148	CASSETTE COVER SPRING	1	
30	VMB3314	DOOR LOCK SPRING	1		137	VHD1105	SCREW	1	
31	VEK9224	BATTERY TERMINAL ASS'Y	1		140	VSC5204	POWER SHIELD	1	
32	K4ZZ04000026	BATTERY TERMINAL	1		141	J0KG00000011	FERRITE CORE	1	
33	VWJ1465	BUS FLEXIBLE ASS'Y	1		143	VSQ0819	DC LINE CORE	1	J0KG00000013
43	VMP6666	MIC P.C.B. HOLDER ANGLE	1		144	VGP5438	CASSETTE COVER (LOWER)	1	
44	VMP6650	HEDLE HOLDER ANGLE (R)	1		145	VKW2418	REMOTE CONTROL WINDOW	1	
46	VWJ13E5070L0	FFC	1		146	VFC3571	LENS FOOD	1	
48	VMP6653	BELT HOOK ANGLE (R)	1		147	VMP6846	C.B.A. ANGLE	1	
51	VKMS2489	MIC CASE (A)	1		148	VMP6850	WEIGHT ANGLE	1	
52	VKMS2518	MIC CASE (B)	1		149	VEE0N79	CABLE	1	
53	VYQ1521	MIC NET ASS'Y	1		150	VWJ16E5150L0	FLEXIBLE CABLE	1	
54	VMP5466	FRONT ANGLE	1		152	VEE0P60	EARTH CABLE	1	
55	VGQ4750	MIC SHEET	1		153	VMP6923	EARTH ANGLE	1	
56	VMP6649	HANDLE HOLDER ANGLE (F)	1		154	VMZ3181	INSULATION SHEET	1	
58	VMT1192	CCD HOLDER CUSHION	1						
59	VXU1598	PHOTO SHOT BUTTON ASS'Y	1						
64	VYK0B23	GRIP COVER ASS'Y	1		200	XTN2+4G	SCREW	1	
66	VEK9259	GRIP OP P.C.BOARD K	1		201	XTV3+6GFZ	SCREW	2	
67	VMP6760	REMOCON P.C.B. FIX ANGLE	1		203	XTV26+8G	SCREW	8	
68	VWJ16E5130L0	FFC	1		204	XSN3+6FZ	SCREW	3	
69	VEE0P89	REMOCON SENSOR CABLE	1		205	XTV3+10G	SCREW	2	
70	VEE0P90	ZOOM PHOTO CABLE	1		206	XYN3+C6	SCREW	4	
72	VMP6796	POWER P.C.BOARD ANGLE	1		207	XTB3+8FFZ	SCREW	1	
73	VMZ3127	BATTERY INSULATION SHEET	1		208	XSN26+12FZ	SCREW	2	
75	VFB0209	GRIP BELT	1		209	XWE26	WASHER	2	
76	VMG1373	BELT BLIND CAP	1		210	XWA26B	WASHER	2	
77	VMP6741	BEL FIX ANGLE	1		211	XNG26EFXS	NUT	2	
78	VGQ4494	S/S LEVER	1		212	XQN16+B5FZ	SCREW	3	
79	VGQ4272	S/S BUTTON PIECE	1		213	XQN2+CJ6FZ	SCREW	2	
80	VKW2419	AWT WINDOW	1		214	XTN2+6G	SCREW	3	
81	VGU7577	S/S BUTTON	1		215	XTN26+4G	SCREW	2	
82	VMT0906	GASKET	1		216	XSB2+5FZ	SCREW	2	
83	VYQ2246	ZOOM PLATE ASS'Y	1		217	XTN26+6B	SCREW	2	
85	VMT1197	ZOOM BLIND SHEET	1		219	XYN26+K6	SCREW	2	
86	VGU8946	T/W BUTTON PLATE	1		220	XYN2+C6	SCREW	2	
87	VGQ6365	ZOOM LEVER	1		221	XTV4+8G	SCREW	4	
88	VMS7039	ZOOM SHAFT	1		222	XYN26+C6	SCREW	2	
89	VGQ6281	GRIP SW BRACKET	1		224	XQN16+CJ5	SCREW	3	
90	VGQ6278	ZOOM GEAR	1		225	XQN2+B25	SCREW	1	
91	XUC2FP	E-RING	1		226	XQN2+C4	SCREW	4	
92	VEK8453	ZOOM VR ASS'Y	2		230	XQN2+CJ6FZ	SCREW	7	
93	VXP1871	MF RING ASS'Y	1		231	XTB3+10GFZ	SCREW	3	
94	VGQ6044	MF RING BASE	1		232	XTN26+6J	SCREW	2	
95	VSC5205	LENS COVER F SHIELD	1		233	XQN2+BJ4FZ	SCREW	3	
96	VYF2741	LENS CASE R ASS'Y	1		234	XYN3+K6	SCREW	2	
100	VMT1201	SOFT GASKET	3		235	XTB26+6GFZ	SCREW	4	

FRAME & CASING PARTS ASSEMBLY (1)

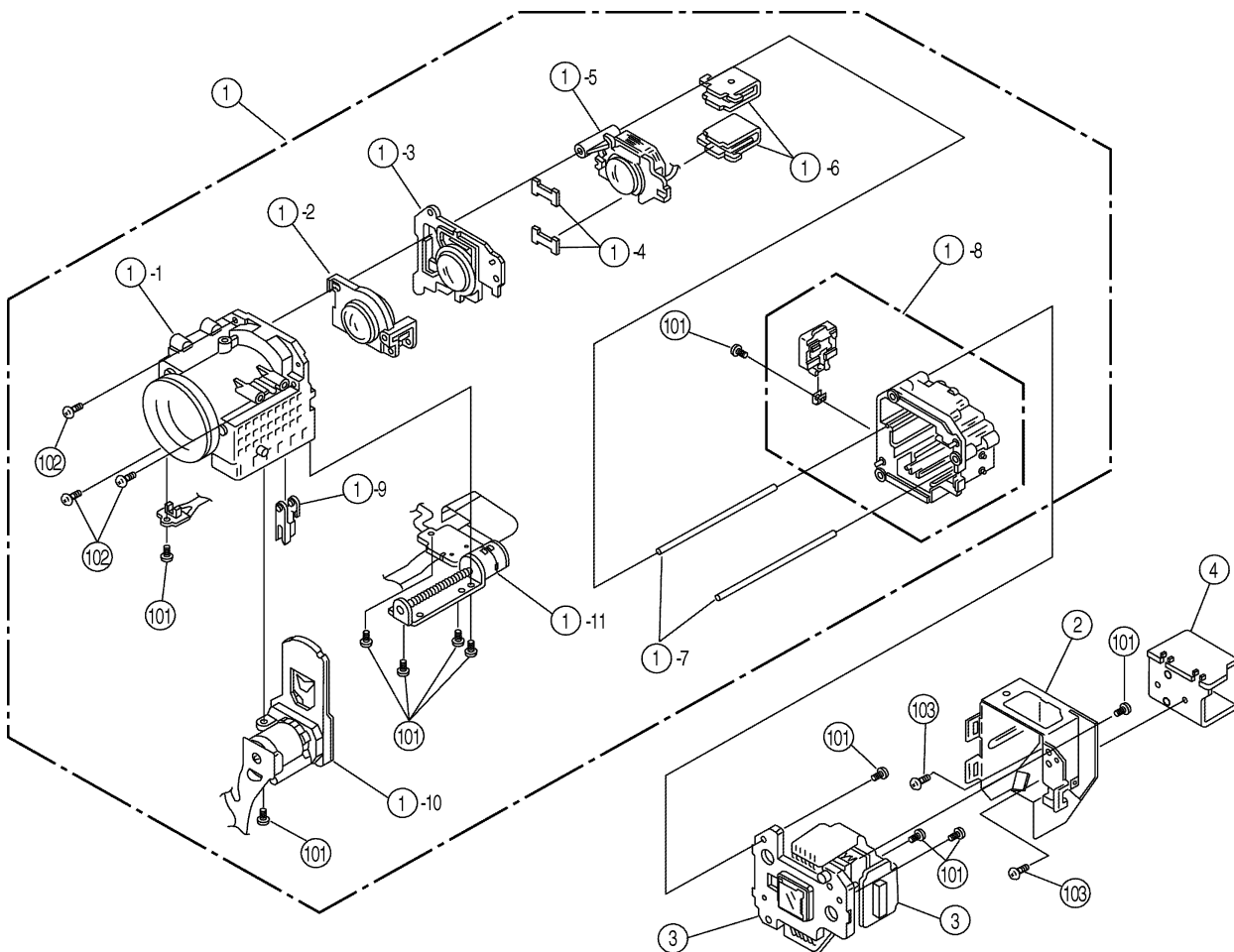
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FRAME & CASING PARTS ASSEMBLY(2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYK9892	SIDE CASE R ASS'Y	1	
2	VGQS1014	C.B.A. HOLDER	1	
3	VYK7879	SPEAKER HOLDER ASS'Y	1	
4	VMP6661	OPERATE BUTTON ANGLE	1	
5	VMT1192	CCD HOLDER CUSHION	1	
6	VMP6844	CCD HOLDER ANGLE	1	
8	VGU8746	MENU BUTTON	1	
10	VMT0771	GASKET (A)	1	
11	VGU7776	AUTO/MANUAL KNOB	1	
12	VGU7777	FOCUS BUTTON	1	
13	VGQ4813	KNOB COVER	1	
14	VMB3197	KNOB COVER SPRING	1	
15	VYK9725	EVF HOLD CASE ASS'Y	1	
16	VKM5513	EVF HOLD CASE (UPPER)	1	
17	VKM5514	EVF HOLD CASE (LOWER)	1	
18	VGQ5994	EVF RING	1	
19	VGQ6067	EVF LOCK RING	1	
20	VEE0N67	CABLE	1	
21	VMX3120	BUSH	1	
22	VMG1372	O-RING	1	
23	VEE0N39	GND	1	
24	VMT1202	VF RING TAPE	1	
25	VMZ3140	VF UPPER SPACER	1	
27	VMP5464	EVF CASE ANGLE	1	
28	VGQ4624	EVF BARRIER	1	
29	VKMS2495	EVF UPPER CASE	1	
30	VYKS1861	EVF LOWER CASE ASS'Y	1	
31	VGQ4585	EVF ROTARY HOLDER	1	
32	VMC1365	EVF ROTARY SPRING	1	
33	VGK2684	EVF HOLD CASE	1	
34	VGQ6068	EVF THRUST BEAD	1	
35	VGQ6096	EVF SLIDE PLATE	1	
36	VYK8120	EYE CAP HOLDER ASS'Y	1	
37	VYQ2099	EVF LCD HOLDER ASS'Y	1	
38	VMZ3141	VF SLIDE BASE	1	
39	VHD1127	SCREW	4	
41	VSC4665	LCD SHIELD CASE	1	
47	VYH0295	HANDLE ASS'Y	1	
49	VYF2769	HANDLE COVER	1	
50	VJF0804	CABLE CLAMPER	1	
53	VYQ2096	MIC HOLDER PLATE ASS'Y	1	
54	VMP2407	SHOE	2	
55	VMC1288	SHOE SPRING	2	
59	VGU8747	PHOTO BUTTON	1	
60	VGQ4811	SHOE COVER	2	
61	VGQ5988	EVR BLIND COVER	1	
62	VYQ1443	CAMERA FRAME ASS'Y	1	
63	VWJ05E5180L0	FFC	1	
64	VWJ12E5100L0	FFC	1	
65	VSC5200	CCD SHIELD COVER	1	
70	VWJ14E5040L0	FFC	1	
71	VEE0M14	SPEAKER CABLE K	1	
72	VWJ1467	FFC	1	
73	VMG1355	SHOULDER PAD	1	
76	VGP5435	FACE PANEL	1	
77	VGU7779	VTR OPERATION BUTTON (A)	1	
78	VGU7780	VTR OPERATION BUTTON (B)	1	
79	VGQ4598	VTR OPERATION HOLDER	1	
80	VMG1070	VTR DEADEN SHEET	2	
81	VMP6651	VTR EARTH PLATE	1	
82	VMB2531	MODE KNOB SPRING	1	
83	VMP6628	VTR OPERATE BUTTON ANGLE	1	
84	VGQ4853	VTR BARRIER	1	
85	VWJ07E5130L0	FFC	1	
86	VMT0771	GASKET (A)	1	
87	VGQ4631	SPEAKER NET	1	
88	VWJ16C8050AA	FFC	1	
89	VWJ13C8045AA	FFC	1	
90	VGU8883	SLIDE KNOB	3	
91	VGU8881	VR KNOB	2	
92	VGU7459	TACT SW KNOB	1	
93	VMP6845	HINGE HOLD ANGLE	1	
94	VGQ6188	CABALE BARRIER	1	
96	VWJ08E5050L0	FLEXIBLE CABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
97	VGQ6273	CABLE PROTECT SHEET	1	
98	VMZ3182	C.B.A. INSULATION SHEET	1	
100	XTV3+6GFZ	SCREW	4	
101	XQN2+BJ4	SCREW	5	
103	XQN16+BJ4FZ	SCREW	2	
104	XTV26+8G	SCREW	2	
105	XTN3+8GFZ	SCREW	5	
106	XTN26+8GFZ	SCREW	3	
107	XTN3+6J	SCREW	2	
108	XQN16+BJ3FZ	SCREW	2	
110	XQS2+AJ7FZ	SCREW	8	
112	XQN16+B5FZ	SCREW	2	
113	XSB2+5FZ	SCREW	3	
114	VMS5604	SCREW	3	
115	XQN2+B3	SCREW	1	
118	XQN16+B4FN	SCREW	2	
121	XTB3+8GFZ	SCREW	16	
124	XYN2+C6	SCREW	2	
E3	VEP03E35E	VTR MAIN C.B.A.	1	
E4	VEP23443A	CAMERA MAIN P.C.BOARD	1	
E5	VEP20737B	CAMERA OPERATION P.C.B.	1	
E6	VEP28240B	E.V.F (A) P.C.BOARD	1	
E7	VEP28241B	E.V.F (B) P.C.BOARD	1	
E11	VEP06C24A	TOP OPERATION P.C.BOARD	1	
E14	VEP000T6B	MOTHER C.B.A.	1	
E20	VEP06E27A	LCD CONTROL C.B.A.	1	
E21	VEP000S1A	EVF INT C.B.A.	1	
E23	VEP22268A	CAMERA SUB P.C.BOARD	1	
E25	VEP000T7A	ZOOM C.B.A.	1	
E26	VEP000T8A	EVR EXT C.B.A.	1	
E27	VEP000T9A	SW C.B.A.	1	

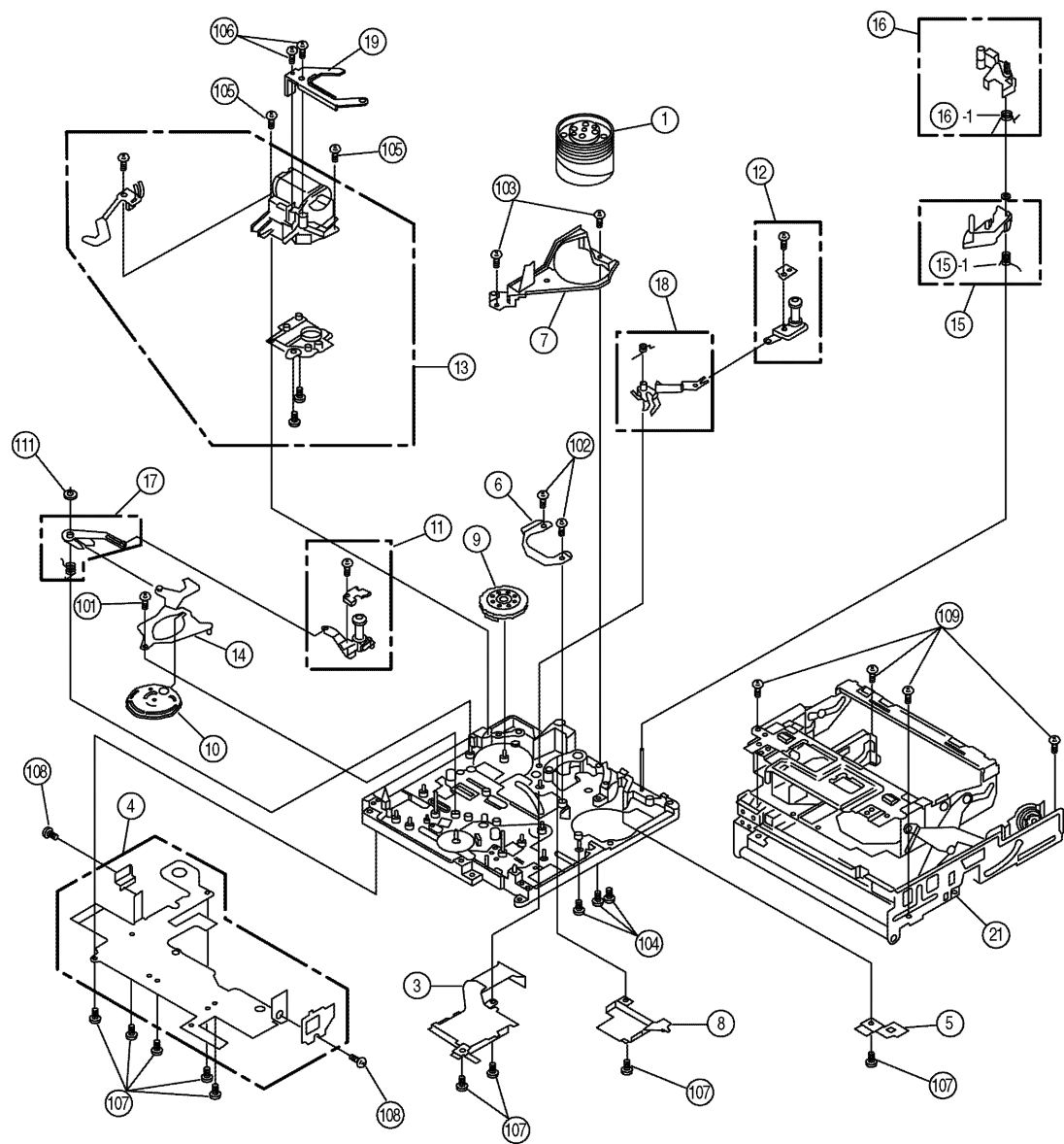
CAMERA LENS ASSEMBLY



CAMERA LENS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXW0401	LENS ASS'Y	1	
1-1	VXQ0729	MAIN ASS'Y	1	
1-2	VXP1829	2ND MOVING FRAME ASS'Y	1	
1-3	VXQ0667	3RD LENS ASS'Y	1	
1-4	VMA9768	SIDE YOKE	2	
1-5	VXP1830	4TH MOVING FRAME ASS'Y	1	
1-6	VXA5946	YOKE ASS'Y	2	
1-7	VMS6230	GUIDE POLE	1	
1-8	VDW0506	MASTER FLANGE	1	
1-9	VML3277	2ND LACK	1	
1-10	VEK8197	LENS FLEX CARD	1	
1-11	10S1F10F6NA	ZOOM MOTOR ASS'Y	1	
2	VSC4668	SHIELD CASE	1	
3	VXQ0993	PRISM ASS'Y	1	
3-1	VEP22269B	CCD FLEX. CARD C.B.A.	1	
4	VGQ4738	CCD PLATE	1	
101	XQN16+CJ5	SCREW	11	
102	XQN16+CJ8	SCREW	3	
103	XQN2+BF4	SCREW	2	

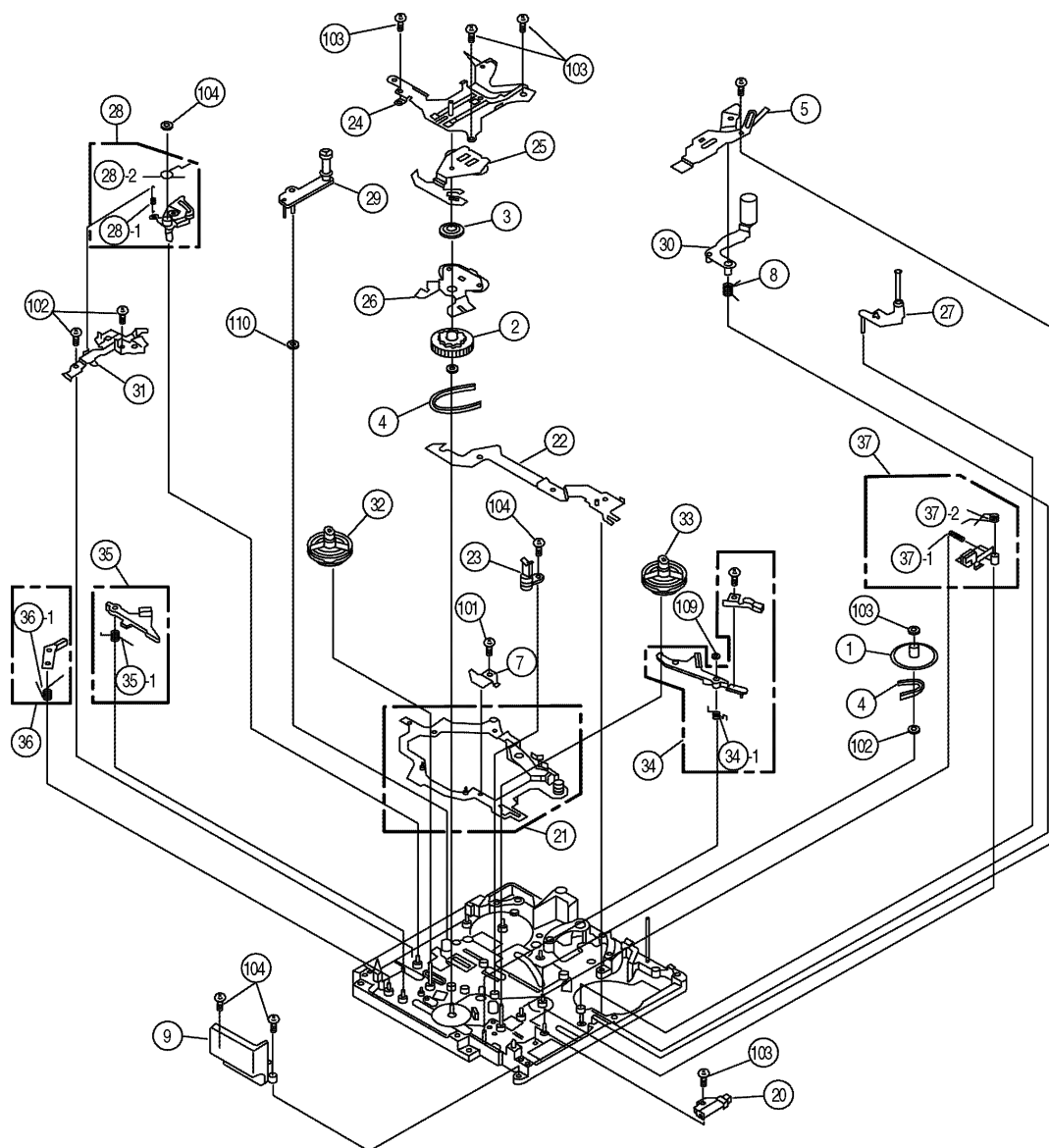
VCR MECHANISM ASSEMBLY(1)



VCR MECHANISM ASSEMBLY(1)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VEG1573	CYLINDER UNIT	1		101	VHD0878	SCREW	1	
2	VEM0624	CAPSTAN MOTOR ASS'Y	1		102	VHD0989	SCREW	2	
3	VEP05352A	HEAD AMP P.C.BOARD	1		103	XQN14+B4	SCREW	2	
3-*	VSC4639	SHIELD CASE	1		104	VXQ0439	SCREW	3	
4	VES0928	FLEXIBLE CABLE	1		105	XQN14+B35	SCREW	2	
5	VMA9708	CAPSTAN COVER	1		106	XQN14+BQ4	SCREW	2	
6	VMA9179	RADON PLATE	1		107	XQN14+B15	SCREW	9	
7	VMD2373	RAIL	1		108	XQN14+B2	SCREW	2	
8	VSC4640	SHIELD CASE	1		109	VHD0882	SCREW	6	
9	VSR0114	MODE SW	1		110	XQN14+B4FZ	SCREW	1	
10	VXA5407	CAM GEAR	1		111	VMX2027	CUT WASHER	2	
11	VXA5409	S BOAT ASS'Y	1 (M)						
12	VXA5410	T BOAR ASS'Y	1 (M)						
13	VXA5417	GEAR BOX	1						
14	VXA5612	RADON ARM ASS'Y	1						
15	VXL2461	T2 ARM ASS'Y	1						
15-1	VMB2789	T2 ARM SPRING	1						
16	VXL3103	CLEANING ARM ASS'Y	1 (M)						
16-1	VMB2791	CLEANING ARM SPRING	1						
17	VXL2470	S1 ARM ASS'Y	1						
18	VXL2471	T1 ARM ASS'Y	1						
19	VMA9753	CYLINDER HOLD ANGLE	1						
20	VMB2777	CAPSTAN ADJ. SPRING	1						
21	VXA5387	GARAGE ASS'Y	1						

VCR MECHANISM ASSEMBLY(2)

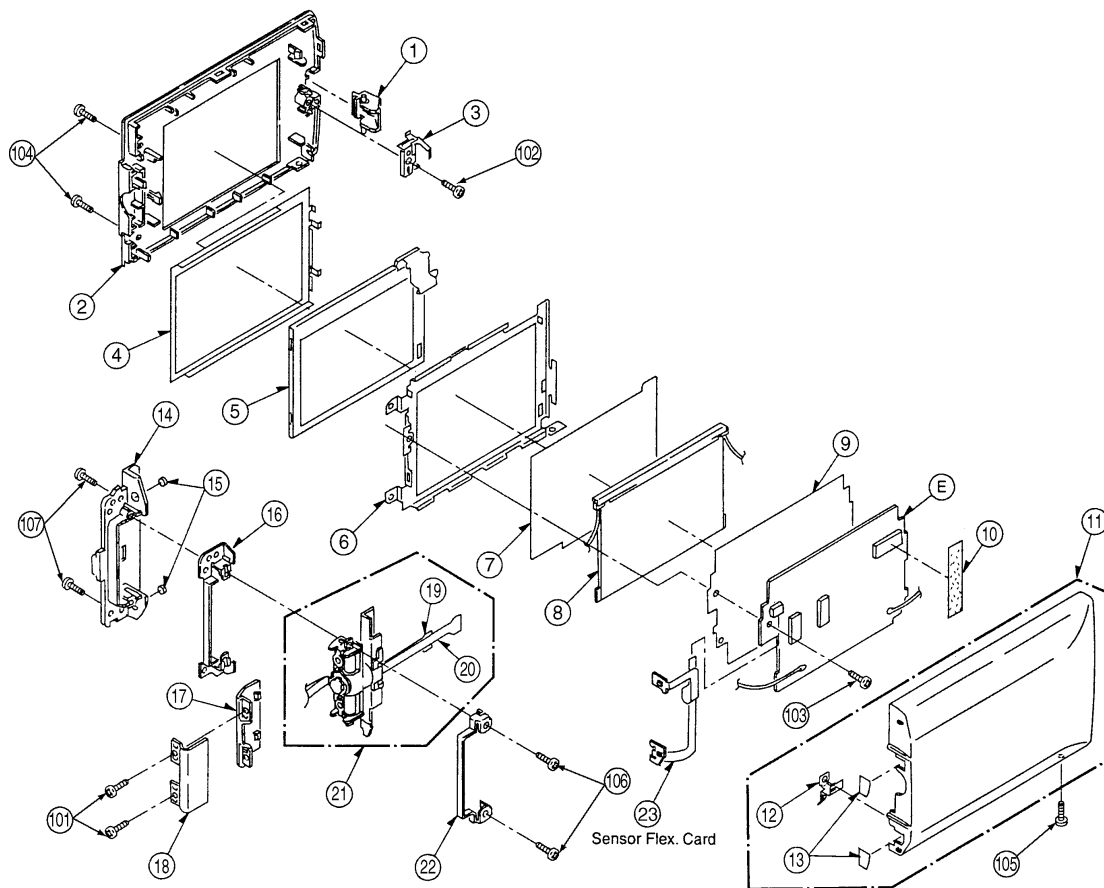


VCR MECHANISM ASSEMBLY(2)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VDG1030	DRIVE PULLEY	1	
2	VDG1031	CENTER PULLEY	1	
3	VDG1032	SENSOR GEAR	1	
4	VDV0265	TIMING BELT	1	
5	VMA9178	PINCH PRESSURE PLATE	1	
7	VMA9181	BRAKE ROD SUPPORT (T)	1	
8	VMB2776	SPRING	1	
9	VSH0067	MIC SWITCH	1	
20	VSJ0114	SOLENOID	1	
21	VXA5401	BRAKE ROD ASS'Y	1	
22	VXA5408	T3 ROD ASS'Y	1	
23	VXA5411	LED HOLDER ASS'Y	1	
24	VXA5412	COVER PLATE ASS'Y	1	
25	VXL2454	P IDLER ARM ASS'Y	1	
26	VXL2455	FR IDLER ARM ASS'Y	1	
27	VXL2456	TENSION ARM ASS'Y	1	
28	VXL2732	PAD ARM ASS'Y	1	
28-1	VMB2788	TENSION SPRING	1	
28-2	VMB2787	PAD ARM SPRING	1	
29	VXL2462	T3 ARM ASS'Y	1	
30	VXL2464	PINCH ARM ASS'Y	1	
31	VXL2466	EJECT ARM ASS'Y	1	
32	VXR0355	SUPPLY REEL TABLE	1	
33	VXR0356	TAKE UP REEL TABLE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
34	VXZ0319	TAKE UP MAIN BRAKE	1	
34-1	VMB2782	T MAIN BRAKE SPRING	1	
35	VXZ0321	SUPPLY MAIN BRAKE	1	
35-1	VMB2783	S MAIN BRAKE SPRING	1	
36	VXZ0322	FF BRAKE ASS'Y	1	
36-1	VMB2784	FF BRAKE SPRING	1	
37	VXZ0323	REV BRAKE ASS'Y	1	
37-1	VMB2786	REV SPRING	1	
37-2	VMB2785	REV BRAKE SPRING	1	
101	VHD0882	SCREW	1	
102	XQN14+B15	SCREW	2	
103	VHD0883	SCREW	5	
104	XQN14+B35	SCREW	3	
105	VMX2503	C PULLEY WASHER	1	
106	VMX3122	WASHER	1	
107	VMX2504	WASHER	1	
108	VMX2027	CUT WASHER	1	
109	VMX2028	WASHER	1	
110	VMX2394	WASHER	1	


LCD ASSEMBLY

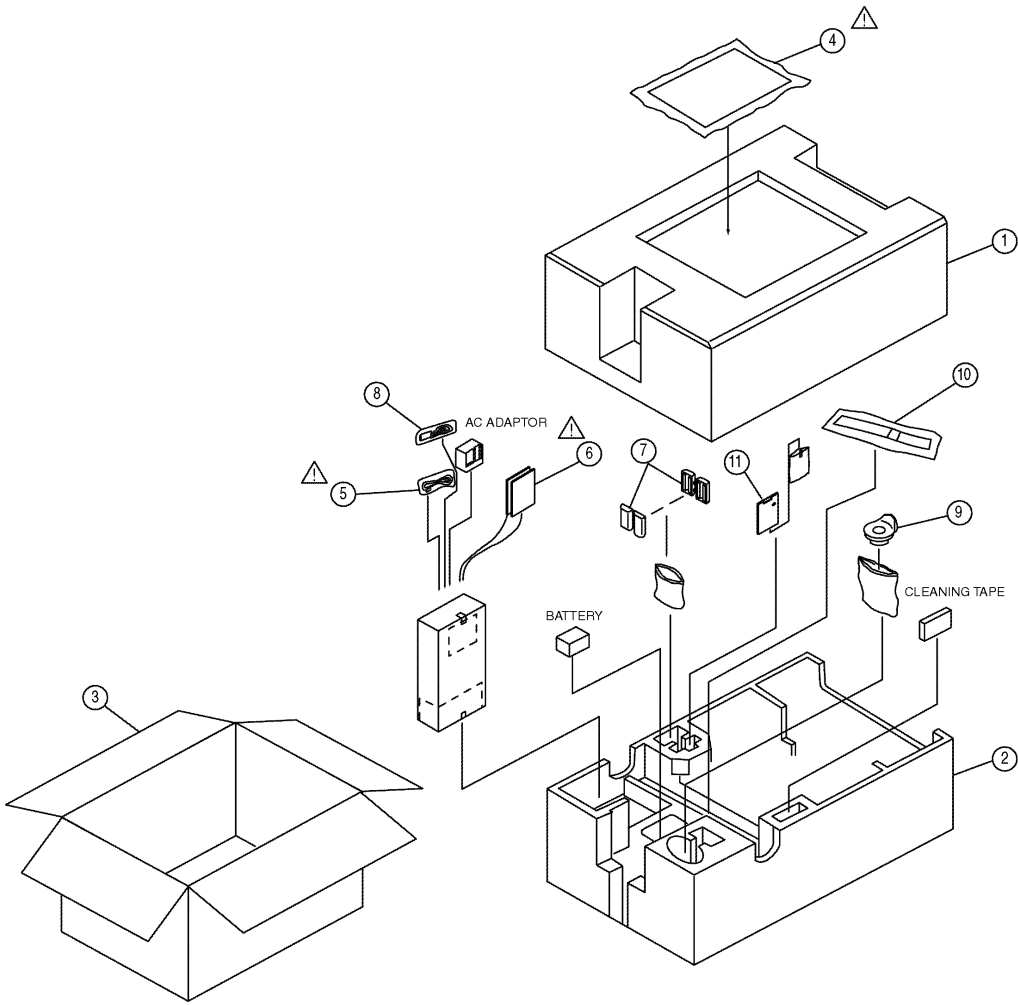


LCD ASSEMBLY

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PACKING PARTS & ACCESSORIES ASSEMBLY

Components identified with the mark  have the special characteristics for safety. When replacing any of these components, use only the same type.



PACKING PARTS & ACCESSORIES ASSEMBLY

[illegible][illegible]

ELECTRICAL REPLACEMENT PARTS LIST

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP01801D	POWER C.B.A.	1	(RTL)	■ E1	VEP01801D	POWER C.B.A.	1	(RTL)
■ E2	VEP02561A	DRIVE C.B.A.	1	(RTL)					
■ E3	VEP03E35E	VTR MAIN C.B.A.	1	(RTL)	C1001	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
■ E4	VEP23443A	CAMERA MAIN C.B.A.	1	(RTL)	C1002	ECGC1BB150	C.CAPACITOR 12V 15P	1	
■ E5	VEP20737B	CAMERA OPERATION C.B.A.	1	(RTL)	C1003,04	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	2	
■ E6	VEP28240B	E.V.F (A) C.B.A.	1	(RTL)	C1009	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
■ E7	VEP28241B	E.V.F (B) C.B.A.	1	(RTL)	C1011	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
■ E8	VEP05352A	HEAD AMP C.B.A.	1	(RTL)	C1012	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
■ E9	VEP04684A	FRONT C.B.A.	1	(RTL)	C1013	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
■ E10	VEP04778A	JACK C.B.A.	1	(RTL)	C1014	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	1	
■ E11	VEP06C24A	TOP OPERATION C.B.A.	1	(RTL)	C1015	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
■ E12	VEP06C37A	REAR OPERATION C.B.A.	1	(RTL)	C1016-19	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	4	
■ E13	VEP04693A	MIC C.B.A.	1	(RTL)	C1021	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
■ E14	VEP000T6B	MOTHER C.B.A.	1	(RTL)	C1022	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
■ E15	VEP000R1A	EJECT C.B.A.	1	(RTL)	C1023	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
■ E16	VEP000R3A	REMOTE CONTROL C.B.A.	1	(RTL)	C1024	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	1	
■ E17	VEP000R4A	GRIP ZOOM C.B.A.	1	(RTL)	C1025	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
■ E18	VEP000R5A	AWT INT C.B.A.	1	(RTL)	C1026-29	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	4	
■ E19	VEP000R6A	BATTERY INT C.B.A.	1	(RTL)	C1031	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
■ E20	VEP06E27A	LCD CONTROL C.B.A.	1	(RTL)	C1032	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
■ E21	VEP000S1A	EVF INT C.B.A.	1	(RTL)	C1033	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
■ E22	VEP000S2A	PHOTO SHOT SW C.B.A.	1	(RTL)	C1034	ECJ1ZB1H103K	C.CAPACITOR CH 50V 0.01U	1	
■ E23	VEP22268A	CAMERA SUB C.B.A.	1	(RTL)	C1035	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
■ E24	VEP01896A	SUB POWER C.B.A.	1	(RTL)	C1036	ECJ2YB1A105K	T.CAPACITOR CH 10V 1U	1	
■ E25	VEP000T7A	ZOOM C.B.A.	1	(RTL)	C1041	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
■ E26	VEP000T8A	EVR EXT C.B.A.	1	(RTL)	C1042	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
■ E27	VEP000T9A	SW C.B.A.	1	(RTL)	C1043	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
■ E28	VEP04777A	MIC AMP C.B.A.	1	(RTL)	C1045	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
					C1046,47	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	2	
					C1051	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
					C1052	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1	
					C1053	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
					C1055	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
					C1056	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
					C1058	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
					C1059	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
					C1061	ECJ0EB1E152K	C.CAPACITOR CH 25V 1500P	1	
					C1062	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
					C1063,64	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	2	
					C1065,66	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	2	
					C1071	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
					C1072	F1K1A3350001	C.CAPACITOR CH 10V 3.3U	1	
					C1073	ECJ0EB1E331K	C.CAPACITOR CH 25V 330P	1	
					C1074	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	1	
					C1075	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
					C1076	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
					C1101	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
					C1102	F1J1C334A091	C.CAPACITOR CH 16V 0.33U	1	
					C1103	ECJ1VB1C473K	C.CAPACITOR CH 16V 0.047U	1	
					C1104	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
					C1105	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
					C1106	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
					C1107	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
					C1111	ECJ1VC1H471J	C.CAPACITOR CH 50V 470P	1	
					C1112	ECJ0EB1E471K	C.CAPACITOR CH 25V 470P	1	
					C1113	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
					C1114	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
					C1117	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
					C1118	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
					C1119	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
					C1121	ECJ1VB1H822K	C.CAPACITOR CH 50V 8200P	1	
					C1122	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	1	
					C1123	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
					C1124	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
					C1128,29	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	2	
					C1131	ECJ1VC1H471J	C.CAPACITOR CH 50V 470P	1	
					C1132	ECJ0EB1E222K	C.CAPACITOR CH 25V 2200P	1	
					C1133	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
					C1134	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
					C1141	ECJ2YB1E223K	C.CAPACITOR CH 25V 0.022U	1	
					C1142	ECJ1VB1H222K	C.CAPACITOR CH 50V 2200P	1	
					C1143	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1	
					C1144	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1151	ECJ1VB1H153K	C.CAPACITOR CH 50V 0.015U	1		QR1055	UNR9213J0L	TRANSISTOR	1	
C1152	ECJ0EB1C822K	T.CAPACITOR CH 16V 8200P	1		QR1101	UNR9214J0L	TRANSISTOR	1	
C1153	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1						
C1154	ECJ0EC1H820J	C.CAPACITOR CH 50V 82P	1		R1001	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
C1155	ECST1AY225	T.CAPACITOR CH 10V 2.2U	1		R1003.04	ERJ2GEJ225	M.RESISTOR CH 1/16W 2.2M	2	
C1156	ECST1AY106	T.CAPACITOR CH 10V 10U	1		R1005	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
C1157	F1J0J335A002	C.CAPACITOR CH6.3V 3.3U	1		R1007	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
C1171	ECJ1VB1H822K	T.CAPACITOR CH 50V 8200P	1		R1008	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
C1172	ECJ0EB1C822K	T.CAPACITOR CH 16V 8200P	1		R1009	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
C1173	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1		R1010	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
C1174	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1		R1011	ERJ6RBB682	M.RESISTOR CH 1/10W 6.8K	1	
C1251	ECJ4YB1C106V	T.CAPACITOR CH 16V 10U	1		R1012	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
					R1013	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
D1051.52	MA729	DIODE	2		R1014	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
D1061.62	MA728	DIODE	2		R1015	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
D1101	MAZ81200LL	DIODE	1		R1020	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
D1102	MA728	DIODE	1		R1021	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
D1103	1SS355	DIODE	1		R1022	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
D1151	MAZ81600ML	DIODE	1		R1023	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
D1152	1SS355	DIODE	1		R1024	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
					R1025	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
FP1001	VJS3320B014	CONNECTOR (FEMALE)	1		R1030	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
					R1031	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
IC1001	C0DBAFA00012	IC	1		R1032	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
IC1002	TA75S393F	IC	1		R1033	ERJ3RED220	M.RESISTOR CH 1/16W 22	1	
					R1034	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
IP1001	VSFS0031E31T	FUSE	1		R1035	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
					R1040	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
L1001	ELC5SB3R9M	COIL 3.9UH	1		R1041	ERJ6RBB152	M.RESISTOR CH 1/10W 1.5K	1	
L1011	ELL6TR560	COIL 56UH	1		R1042	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
L1012	G1A4R7G00001	COIL 4.7UH	1		R1043	ERJ3RBD301	M.RESISTOR CH 1/16W 300	1	
L1013	G1C100KA0005	COIL 10UH	1		R1044	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
L1014	G1C100KA0004	COIL 10UH	1		R1050	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
L1015-17	G1C100KA0005	COIL 10UH	3		R1051	ERJ6RBB273	M.RESISTOR CH 1/10W 2.7K	1	
L1021	ELL6TR150	COIL 15UH	1		R1052	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
L1022	G1A4R7G00001	COIL 4.7UH	1		R1053	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
L1023	G1C4R7MA0002	COIL 4.7UH	1		R1054	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
L1024	G1C100KA0005	COIL 10UH	1		R1056	ERJ2GEJ470	M.RESISTOR CH 1/16W 47	1	
L1025	G1C100KA0004	COIL 10UH	1		R1057	ERJ2RHD133	M.RESISTOR CH 1/16W 13K	1	
L1026	G1C100KA0005	COIL 10UH	1		R1058	ERJ2RHD361	M.RESISTOR CH 1/16W 360	1	
L1029	G1C100KA0005	COIL 10UH	1		R1059	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
L1031	ELL6TR151	COIL 150UH	1		R1061.62	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	2	
L1032	G1A4R7G00001	COIL 4.7UH	1		R1070	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
L1041	ELL6TR101	COIL 100UH	1		R1071	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
L1042	G1A4R7G00001	COIL 4.7UH	1		R1072	ERJ3RED820	M.RESISTOR CH 1/16W 82	1	
L1043	G1C100KA0004	COIL 10UH	1		R1073	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
L1051.52	G1C331KA0005	COIL 330UH	2		R1074	ERJ6RBB272	M.RESISTOR CH 1/10W 2.7K	1	
L1054	G1C100KA0005	COIL 10UH	1		R1075	ERJ2GEJ331	M.RESISTOR CH 1/16W 330	1	
L1061	ELL6TRD003	COIL 3UH	1		R1081	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
L1062	ELL6TRD004	COIL 4UH	1		R1101	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
L1071	ELL6TR330	COIL 33UH	1		R1102	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
L1072	G1A4R7G00001	COIL 4.7UH	1		R1103	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
					R1104	ERJ2GEJ123	M.RESISTOR CH 1/16W 12K	1	
PP1001	K1KA80B00025	CONNECTOR (MALE)	1		R1105	ERJ2GEJ563	M.RESISTOR CH 1/16W 56K	1	
					R1106	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
Q1011	B1ZBZ0000018	TRANSISTOR	1		R1107	ERJ2GEJ225	M.RESISTOR CH 1/16W 2.2M	1	
Q1021	B1ZBZ0000018	TRANSISTOR	1		R1108	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1	
Q1022	B1DFBC000005	TRANSISTOR	1		R1109	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
Q1031	B1ZBZ0000018	TRANSISTOR	1		R1111	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
Q1041	B1ZBZ0000018	TRANSISTOR	1		R1112	ERJ2GEJ822	M.RESISTOR CH 1/16W 8.2K	1	
Q1042	B1DFBC000005	TRANSISTOR	1		R1121	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
Q1051	B1BDE000001	TRANSISTOR	1		R1122	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
Q1052	2SB970X	TRANSISTOR	1	2SB0970X0L	R1131	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
Q1053	2SD2216J0L	TRANSISTOR	1		R1132	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
Q1054	XP1401	TRANSISTOR-RESISTOR	1		R1136	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
Q1055	2SD2216J0L	TRANSISTOR	1		R1141	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
Q1056	2SB1462JHL	TRANSISTOR	1		R1142	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
Q1061.62	B1ZBZ0000018	TRANSISTOR	2		R1150	ERJ8GEYJ680	M.RESISTOR CH 1/8W 68	1	
Q1071	B1ZBZ0000018	TRANSISTOR	1		R1151	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
Q1101	2SB1462JHL	TRANSISTOR	1		R1152	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1	
					R1153	ERJ2RHD123	M.RESISTOR CH 1/16W 12K	1	
QR1001	UNR2130X0L	TRANSISTOR	1		R1154	ERJ2RHD473	M.RESISTOR CH 1/16W 47K	1	
QR1002	UNR921FJ0L	TRANSISTOR	1		R1155	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
QR1003	UNR9213J0L	TRANSISTOR	1		R1156	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1	
QR1004	UNR9115J0L	TRANSISTOR	1		R1157	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1158,59	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2	
R1171	ERJ2GEJ151	M.RESISTOR CH 1/16W 150	1	
R1172	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R1253-55	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	3	
R1256	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
T1001	G5DYA0000016	TRANSFORMER	1	
■ E2	VEP02561A	DRIVE C.B.A.	1 (RTL)	
C2201	F1H1E273A050	C.CAPACITOR CH 25V 0.027U	1	
C2202	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2203	F1G1H270A469	C.CAPACITOR CH 50V 27P	1	
C2204	ECUX1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2205	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1	
C2207	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2208	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C2209	ECJ1VB1E223K	C.CAPACITOR CH 25V 0.022U	1	
C2210	ECJ1VB1C473K	C.CAPACITOR CH 16V 0.047U	1	
C2211	ECST0JY475Z	T.CAPACITOR CH6.3V 4.7U	1	
C2212-14	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	3	
C2215	F1J0J335A002	C.CAPACITOR CH6.3V 3.3U	1	
C2217-19	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	3	
C2223	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2225	F1J0J335A002	C.CAPACITOR CH6.3V 3.3U	1	
C2226,27	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	2	
C2230	F1J0J335A002	C.CAPACITOR CH6.3V 3.3U	1	
C2231	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2232	F1J0J335A002	C.CAPACITOR CH 10V 3.3U	1	
C2233	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C2234	ECJ0EC1H101J	C.CAPACITOR CH 50V 100P	1	
C2235-37	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.01U	3	
C2238,39	F1J0J335A002	C.CAPACITOR CH6.3V 3.3U	2	
C2240	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	1	
C2245	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
C2246	ECUX1A564KBN	C.CAPACITOR CH 10V 0.56U	1	
C2247-49	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	3	
C2250	ECST0JX476Z	T.CAPACITOR CH6.3V 4.7U	1	
C2251	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
C2255-57	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	3	
FP2002	K1MN22B00030	CONNECTOR	1	
FP2003	K1MN09B00027	CONNECTOR	1	
FP2004	K1MN30B00037	CONNECTOR	1	
IC2201	TB6519AF	IC	1	
IC2202,03	UN224	TRANSISTOR-RESISTOR	2	
IC2204	TA75S393F	IC	1	
IC2205	TC75W54FU	IC	1	
IC2206	TC7S86FU	IC	1	
IC2207	COGBE0000007	IC	1	
PS2001	K1KB50A00084	CONNECTOR (FEMALE)	1	
Q2201	2SB1462JHL	TRANSISTOR	1	
Q2202	2SD2216J0L	TRANSISTOR	1	
R2201	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1	
R2202	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2204	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1	
R2205	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2207	ERJ2GEJ561	M.RESISTOR CH 1/16W 560	1	
R2208	ERJ8GEYJR33	M.RESISTOR CH 1/8W 0.33	1	
R2209	ERJ8GEYJR47	M.RESISTOR CH 1/8W 0.47	1	
R2210,11	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	2	
R2212	ERJ8RQR27	M.RESISTOR CH 1/8W 0.27	1	
R2213	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2214	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R2215,16	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
R2220	ERJ2RHD104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R2221	ERJ2RHD431	M.RESISTOR CH 1/16W 430	1	
R2222,23	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	2	
R2224	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1	
R2225	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2226	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2227	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2228	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
R2229	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1	
R2231	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R2232	ERJ2GEJ471	M.RESISTOR CH 1/16W 470	1	
R2233	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R2234	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1	
R2235	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
R2236	ERJ2GEJ273	M.RESISTOR CH 1/16W 27K	1	
R2237	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1	
R2238	ERJ2GEJ122	M.RESISTOR CH 1/16W 1.2K	1	
RA2201	EXBV8V331J	COMBI.R-R 330	1	
RA2203	EXBV4V102J	COMBI.R-R 1K	1	
		MISCELLANEOUS		
	VMZ2689	INSULATION SHEET	1	
■ E3	VEP03E35E	VTR MAIN C.B.A.	1 (RTL)	
C601	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C602	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C603-10	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	8	
C611-13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C614	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C615	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
C616	ECUX1H680JCQ	C.CAPACITOR CH 50V 68P	1	
C617-19	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	3	
C620-26	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	7	
C630-32	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	3	
C633	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C634	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C635-42	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	8	
C643-45	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C646	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C647	ECUX1H181JCQ	C.CAPACITOR CH 50V 180P	1	
C648	ECUX1H680JCQ	C.CAPACITOR CH 50V 68P	1	
C649-51	ECUX1H560JCQ	C.CAPACITOR CH 50V 56P	3	
C652-58	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	7	
C662-65	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	4	
C666	ECUX1C106VBP	C.CAPACITOR CH 16V 10U	1	
C667	VCS0JJ106	T.CAPACITOR CH6.3V 10U	1	
C668	EEJK0JS106	E.CAPACITOR 6.3V 10M	1	
C669	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C671,72	VCS0JJ106	T.CAPACITOR CH6.3V 10U	2	
C2001,02	F1G1H100A448	C.CAPACITOR CH 50V 10P	2	
C2003-05	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	3	
C2006	ECUX1H120JCQ	C.CAPACITOR CH 50V 12P	1	
C2007	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C2008	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2009	VCS0JJ106	T.CAPACITOR CH6.3V 10U	1	
C2010	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C2011	VCS0JJ106	T.CAPACITOR CH6.3V 10U	1	
C2012	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C2013	ECUX1C104ZFQ	C.CAPACITOR CH 16V 0.1U	1	
C2014	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C2015	VCS0JJ106	T.CAPACITOR CH6.3V 10U	1	
C2016	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C2017	VCS0JJ106	T.CAPACITOR CH6.3V 10U	1	
C2018	ECST0JY475Z	T.CAPACITOR CH6.3V 4.7U	1	
C2019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2020	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	1	
C2021	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2023-25	ECUX1C103KBQ	C.CAPACITOR CH 16V 0.01U	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4705	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		L601-03	VLQ0807K100	COIL 10UH	3	G1C100K00024
C4706	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1		L605	VLQ0807K100	COIL 10UH	1	G1C100K00024
C4798,99	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2		L606,07	VLQ0807K220	COIL 22UH	2	G1C220K00016
C6501	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1		L2001	VLQ0807K100	COIL 10UH	1	G1C100K00024
C6504	EEVHB1C470	E.CAPACITOR 16V 47U	1		L2002	VLQ0426J330	COIL 33UH	1	G1C330J00005
C6507	ECUX1C822KBQ	C.CAPACITOR CH 16V 8200P	1		L2003	VLQ0807K100	COIL 10UH	1	G1C100K00024
D2001-04	MA728	DIODE	4		L3002	VLQ0426J5R6	COIL 5.6UH	1	G1C5R6J00005
D2005	1SS355	DIODE	1		L3003,04	VLQ0807K100	COIL 10UH	2	G1C100K00024
D2006	MA133	DIODE	1		L3005	VLQ0807K220	COIL 22UH	1	G1C220K00016
D2007	1SS355	DIODE	1		L3006	VLQ0807K100	COIL 10UH	1	G1C100K00024
D2010	MA728	DIODE	1		L3008	VLQ0807K100	COIL 10UH	1	G1C100K00024
D2011	MA132WK	DIODE	1		L3009	VLQ0426J100	COIL 10UH	1	G1C100J00008
D2012	MA132WA	DIODE	1		L3010,11	VLQ0807K100	COIL 10UH	2	G1C100K00024
D2013	MA728	DIODE	1		L3201	VLQ0807K100	COIL 10UH	1	G1C100K00024
D2015-18	MA728	DIODE	4		L3202	VLQ0807M4R7	COIL 4.7UH	1	G1C4R7K00016
D2020-22	MA728	DIODE	3		L3203-07	VLQ0807K100	COIL 10UH	5	G1C100K00024
D2023	1SS355	DIODE	1		L3208	VLQ0807K220	COIL 22UH	1	G1C220K00016
D2024,25	MA728	DIODE	2		L3209	VLQ0807M4R7	COIL 4.7UH	1	G1C4R7K00016
D3201	MA132WA	DIODE	1		L3801-03	VLQ0807K100	COIL 10UH	3	G1C100K00024
D3202	MA728	DIODE	1		L3901	VLQ0807K220	COIL 22UH	1	G1C220K00016
D4001	MA133	DIODE	1		L4001	VLQ0807K100	COIL 10UH	1	G1C100K00024
D4002	MA728	DIODE	1		L4201	VLQ0807K100	COIL 10UH	1	G1C100K00024
D6501-04	MA132WA	DIODE	4		L4202	VLQ0464K100	COIL 10UH	1	G1C100K00022
D6505	MA132A	DIODE	1		L4502	VLQ0807K100	COIL 10UH	1	G1C100K00024
D6506	MA132WA	DIODE	1		L6501	VLQ0807K100	COIL 10UH	1	G1C100K00024
Δ F6503	K5H801300001	FUSE	1		L6502	VLQ0807K220	COIL 22UH	1	G1C220K00016
FP3201	VJS3320B024	CONNECTOR (FEMALE)	1		LB3001-03	VLP0145	COIL	3	
FP4001	VJS3319B013	CONNECTOR (FEMALE)	1		LB3004	VLP0155	COIL	1	
FP6001	VJS3319B014	CONNECTOR (FEMALE)	1		LB3005,06	VLP0329A601	COIL 600UH	2	
FP6002	VJS3319B016	CONNECTOR (FEMALE)	1		P3001	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
IC602	IR3Y35M	IC	1		PP2001	VJP3989A050	CONNECTOR (MALE)	1	
IC603	NJM78L12UA	IC	1	C0CBAK00001	PP3001	VJP3884B060	CONNECTOR (MALE)	1	
IC604	BU4053BCFV	IC	1		PP3002	VJS3949A070M	CONNECTOR (FEMALE)	1	
IC605	PQ20VZ1U	IC	1		PS1001	VJS3846A080	CONNECTOR (FEMALE)	1	
IC606	XC62AP2802M	IC	1		PS3001	VJS3846A030	CONNECTOR (FEMALE)	1	
IC2001	M31020MA109	IC	1		PS3002	VJS3846A080	CONNECTOR (FEMALE)	1	
IC2002	S3511AEFS	IC	1		Q601-06	2SB970X	TRANSISTOR	6	2SB0970X0L
IC2003	UPD6462GS626	IC	1	C1AB00000580	Q608	2SB970X	TRANSISTOR	1	2SB0970X0L
IC2004	S81333HGKF	IC	1		Q609-11	2SD2216J	TRANSISTOR	3	
IC2005	S29L330AFS	IC	1		Q2001	2SB970X	TRANSISTOR	1	2SB0970X0L
IC2006	M62370GP	IC	1	C0FBBD000082	Q2002	2SB1218A	TRANSISTOR	1	
IC2007	TA75W393FU	IC	1		Q2003	2SD1820	TRANSISTOR	1	
IC2008	TA75S393F	IC	1		Q2006	2SD2216J	TRANSISTOR	1	
IC2009	S81238SGQ8	IC	1		Q2008	XP6501	TRANSISTOR-RESISTOR	1	
IC2010	XC61AN2901M	IC	1		Q3001,02	2SD2216J	TRANSISTOR	2	
IC2011	D784037GK517	IC	1	C2CBHF000091	Q3201	2SD2216J	TRANSISTOR	1	
IC2012	TC4W53FU	IC	1		Q3202	2SB1462JHL	TRANSISTOR	1	
IC2013	MM1320ENRE	IC	1		Q3203	2SC4627J	TRANSISTOR	1	
IC2014,15	TC4W53FU	IC	2		Q3204	2SD2216J	TRANSISTOR	1	
IC3001	T9P90EF	IC	1		Q4001	YN4504	TRANSISTOR-RESISTOR	1	
IC3002	MN47V07AF	IC	1		Q4701	2SD1979	TRANSISTOR	1	
IC3003	MN67373	IC	1		Q4702	XP4401	TRANSISTOR-RESISTOR	1	
IC3004	BA7653AF	IC	1		QR601	UN9212	TRANSISTOR-RESISTOR	1	
IC3005	BH7086KV	IC	1	C1ZBZ0001649	QR604-06	UN9212	TRANSISTOR-RESISTOR	3	
IC3006	NJM2538VT	IC	1		QR607	XP4314	TRANSISTOR-RESISTOR	1	
IC3201	M65500FP	IC	1	C1AB00000834	QR2002,03	XP4213	TRANSISTOR-RESISTOR	2	
IC3202	MNV4260DTA7	IC	1		QR2004	UN9115	TRANSISTOR-RESISTOR	1	
IC3203	AN3741FAP-AV	IC	1		QR2005	UN2130X	TRANSISTOR-RESISTOR	1	
IC3204	AD9057BRS	IC	1		QR2006	UN9115	TRANSISTOR-RESISTOR	1	
IC3205	TC7SH08FU	IC	1		QR2007	UN9213	TRANSISTOR-RESISTOR	1	
IC3801	C1DB00000453	IC	1		QR2008	XP1213	TRANSISTOR-RESISTOR	1	XP0121300L
IC4001	NJM3414AVT	IC	1		QR2009,10	UN9115	TRANSISTOR-RESISTOR	2	
IC4201	BA7785FS	IC	1		QR3001	UN9212	TRANSISTOR-RESISTOR	1	
IC4501	AK4513-VQ	IC	1	C0FBZH000004	QR4001	UN9212	TRANSISTOR-RESISTOR	1	
IC4701	M9802-206GAK	IC	1		QR4002,03	UN9112J	TRANSISTOR	2	
IC6501-03	TC7W241FU	IC	3		QR4201	UN9212	TRANSISTOR-RESISTOR	1	
IC6505,06	TC7SH08FU	IC	2		QR4703	XP4312	TRANSISTOR-RESISTOR	1	
ID2005	VVVS13681	SOFTWARE	1						
JK3801	VJJ0568	DV JACK	1						

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6515	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1		C705	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
					C706	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1	
RA2001	EXB28V102J	COMBI.R-R 1K	1		C707	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
RA2002	EXB24V102J	COMBI.R-R 1K	1		C708	F1G1E392A056	C.CAPACITOR CH 25V 3900P	1	
RA2003	EXB28V473J	COMBI.R-R 47K	1		C709	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
RA2005-08	EXB28V103J	COMBI.R-R 10K	4		C711	ECJ4YB1C106V	C.CAPACITOR CH 16V 10U	1	
RA2011	EXB24V102J	COMBI.R-R 1K	1		C712	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
RA2012	EXB28V473J	COMBI.R-R 47K	1		C713	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
RA2013	EXB24V331J	COMBI.R-R 330	1		C714	ECJ0EB1C822K	C.CAPACITOR CH 16V 8200P	1	
RA2014	EXB24V271J	COMBI.R-R 270	1		C715	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1	
RA2016	EXB24V102J	COMBI.R-R 1K	1		C716	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
RA2018	EXB24V332J	COMBI.R-R 3.3K	1		C717	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	1	
RA2023	EXB28V102J	COMBI.R-R 1K	1		C718	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
RA2024	EXB24V472J	COMBI.R-R 4.7K	1		C719	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
RA3803-05	EXB24V103J	COMBI.R-R 10K	3		C720	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
RA3806,07	EXB28V103J	COMBI.R-R 10K	2		C721	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
RA3808,09	EXB24V103J	COMBI.R-R 10K	2		C722	ECJ0EB1E102K	C.CAPACITOR CH 25V 1000P	1	
RA4001	EXB24V562J	COMBI.R-R 5.6K	1		C724	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
					C725,26	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	2	
W602	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1		C727	ECJ1VB1A224K	T.CAPACITOR CH 10V 0.22U	1	
W604,05	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2		C728	ECJ2YB1A105K	T.CAPACITOR CH 10V 1U	1	
W2001,02	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2						
W2004	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1		D301-03	MA728	DIODE	3	
W6501	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		D304,05	1SS355	DIODE	2	
X2001	VSX0851	CRYSTAL OSCILLATOR	1		FP301	K1MN51B00001	CONNECTOR	1	
X2002	H0J327200035	CRYSTAL OSCILLATOR	1		FP305	VJS3320B012	CONNECTOR (FEMALE)	1	
X2003	VSX0872	CRYSTAL OSCILLATOR	1		FP701	K1MN22B00029	CONNECTOR	1	
X3001	H0J270500010	CRYSTAL OSCILLATOR	1						
X3003	VSX0850	CRYSTAL OSCILLATOR	1		IC301	MN673432	IC	1	
					IC302	MN673442	IC	1	
		MISCELLANEOUS			IC303,04	MN4795F	IC	2	
					IC305	MN1021617EA	IC	1	
	VWJ13E5045L0	FLEXIBLE CABLE	1		IC308	TVHC08FT	IC	1	
	VWJ16E5050L0	FLEXIBLE CABLE	1		IC311,12	TC7SH14FU	IC	2	
	VMZ2759	VTR BARRIER	1		IC701	T9P45AF	IC	1	
	VMT1187	P.C.BOARD BACK UP CUSHION	1		IC702	TA8487F	IC	1	
					IC703	C0GBB0000017	IC	1	
					IC704	C0ABB000106	IC	1	
					IC705	TA75W01FU	IC	1	
					IC706	C0ABB0000081	IC	1	
■ E4	VEP23443A	CAMERA MAIN C.B.A.	1 (RTL)		L303-05	VLQ0807K100	COIL 10UH	3	G1C100K00024
					L306,07	G1C330KA0004	COIL 330UH	2	
					L308	VLQ0807K100	COIL 10UH	1	G1C100K00024
C301,02	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	2		L313,14	VLQ0807K100	COIL 10UH	2	G1C100K00024
C303	ECST0GY226	T.CAPACITOR CH 4V 22U	1		L315	G1C6R8MA0002	COIL 6.8UH	1	
C304	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		L701,02	VLQ0807K100	COIL 10UH	2	G1C100K00024
C305	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1		L703	G1C470KA0005	COIL 47UH	1	
C306	ECST0GY226	T.CAPACITOR CH 4V 22U	1		L704-06	VLQ0807K100	COIL 10UH	3	G1C100K00024
C307	ECJ0EC1H151J	C.CAPACITOR CH 50V 150P	1						
C308	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		LB301-07	J0JBC0000025	FILTER	7	
C309	ECST0GY226	T.CAPACITOR CH 4V 22U	1		LB308	VLF1144A102	FILTER	1	
C310	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1		LB309	J0JBC0000025	FILTER	1	
C311,12	ECJ0EC1H180J	C.CAPACITOR CH 50V 18P	2		LB310-12	VLF1144A102	FILTER	3	
C313	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1						
C314	ECST0GY226	T.CAPACITOR CH 4V 22U	1		PP301	K1KA80B000025	CONNECTOR (MALE)	1	
C315	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		PP302	K1KA30B000055	CONNECTOR (MALE)	1	
C316	ECST0GY226	T.CAPACITOR CH 4V 22U	1						
C317	ECST0JY156	T.CAPACITOR CH6.3V 15U	1		Q301	2SD2216J0L	TRANSISTOR	1	
C318-20	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	3		Q701-03	XN0440400L	TRANSISTOR	3	
C321	ECST0GY226	T.CAPACITOR CH 4V 22U	1		Q704	2SD0601A0L	TRANSISTOR	1	
C322	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		Q706	XP4501	TRANSISTOR-TRANSISTOR	1	XP0450100L
C323	ECST0JY156	T.CAPACITOR CH6.3V 15U	1		Q707	2SB1073	TRANSISTOR	1	
C324-31	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	8						
C332	ECST0GY226	T.CAPACITOR CH 4V 22U	1		QR302	UNR9211J0L	TRANSISTOR	1	
C333	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		QR303	XP1211	TRANSISTOR-RESISTOR	1	
C334	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1						
C335	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		R301	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
C336	ECJ0EB1E561K	C.CAPACITOR CH 25V 560P	1		R302	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	1	
C337	F1G1E821A056	C.CAPACITOR CH 25V 820P	1		R303	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1	
C347	F1G1C104A042	C.CAPACITOR CH 16V 0.1U	1		R305	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
C701	ECJ0EB1E332K	C.CAPACITOR CH 25V 3300P	1		R307	ERJ2GEJ121	M.RESISTOR CH 1/16W 120	1	
C702,03	ECST0JY156	T.CAPACITOR CH6.3V 15U	2		R308,09	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2	
C704	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	1		R310	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R311	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1		R760	ERJ2GEJ393	M.RESISTOR CH 1/16W 39K	1	
R312	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1		R762,63	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	2	
R313	ERJ2GEJ182	M.RESISTOR CH 1/16W 1.8K	1		R764,65	ERJ2RHD122	M.RESISTOR CH 1/16W 1.2K	2	
R314,15	ERJ2GEJ105	M.RESISTOR CH 1/16W 1M	2		R766	ERJ2RHD272	M.RESISTOR CH 1/16W 2.7K	1	
R316,17	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2		R767	ERJ2RHD122	M.RESISTOR CH 1/16W 1.2K	1	
R318	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	1		R768	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ2GEJ562	M.RESISTOR CH 1/16W 5.6K	1		R769	ERJ2GEJ474	M.RESISTOR CH 1/16W 470K	1	
R320	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1		R775	ERJ2GEJ184	M.RESISTOR CH 1/16W 180K	1	
R321	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1		R777	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R322,23	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2						
R324,25	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2		RA301-05	EXB24V473J	COMBI.R-R 47K	5	
R326	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1		RA307	EXB24V473J	COMBI.R-R 47K	1	
R327-29	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	3		RA310	EXB24V332J	COMBI.R-R 3.3K	1	
R330	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1		RA311,12	EXB24V103J	COMBI.R-R 10K	2	
R331	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1		RA314,15	EXB24V104J	COMBI.R-R 100K	2	
R332	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1		RA316	EXB24V152J	COMBI.R-R 1.5K	1	
R334,35	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2		RA317	EXB24V681J	COMBI.R-R 680	1	
R338	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1		RA319-21	EXB24V102J	COMBI.R-R 1K	3	
R339,40	ERJ2GEJ101	M.RESISTOR CH 1/16W 100	2		RA323	EXB24V102J	COMBI.R-R 1K	1	
R341	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1		RA324	EXB24V473J	COMBI.R-R 47K	1	
R343	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1		RA325	EXB24V101J	COMBI.R-R 100	1	
R346	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1		RA333-39	EXB24V101J	COMBI.R-R 100	7	
R367	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1						
R387,88	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	2		TH701	D4CC16830003	THERMISTOR	1	
R389,90	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	2		TH702	D4CC13340001	THERMISTOR	1	
R391	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1		TH703	D4CC11030004	THERMISTOR	1	
R413	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1						
R471	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1		W302	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R701,02	ERJ3GEYJ3R3	M.RESISTOR CH 1/16W 3.3	2		W305	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1	
R703	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1						
R704	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	1		X301	H0J160500022	CRYSTAL OSCILLATOR	1	
R705-07	ERJ2GEJ272	M.RESISTOR CH 1/16W 2.7K	3						
R708,09	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	2				MISCELLANEOUS		
R710	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1						
R711	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1			VGQ4776	CAMERA BARRIER	1	
R712	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1						
R713,14	ERJ2RHD472	M.RESISTOR CH 1/16W 4.7K	2						
R715	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1						
R716	ERJ2GE0R00	M.RESISTOR CH 1/16W 0	1						
R717,18	ERJ6RBB472	M.RESISTOR CH 1/10W 4.7K	2						
R719,20	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	2		■ E5	VEP20737B	CAMERA OPERATION C.B.A.	1	(RTL)
R721	ERJ2GEJ221	M.RESISTOR CH 1/16W 220	1						
R722	ERJ2GEJ472	M.RESISTOR CH 1/16W 4.7K	1						
R723	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	1		SW6501	K0D113B000026	SWITCH	1	
R724	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1		SW6502-04	EVQQW101M	SWITCH	3	
R725	ERJ2GEJ152	M.RESISTOR CH 1/16W 1.5K	1		SW6505	K9AA01500003	SWITCH	1	
R726	ERJ2GEJ184	M.RESISTOR CH 1/16W 180K	1						
R727	ERJ2GEJ821	M.RESISTOR CH 1/16W 820	1						
R728	ERJ2GEJ223	M.RESISTOR CH 1/16W 22K	1						
R729	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1						
R730	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1						
R731	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1		■ E6	VEP28240B	E.V.F (A) C.B.A.	1	(RTL)
R732	ERJ2GEJ332	M.RESISTOR CH 1/16W 3.3K	1						
R733	ERJ2GEJ274	M.RESISTOR CH 1/16W 270K	1						
R734	ERJ2GEJ394	M.RESISTOR CH 1/16W 390K	1		BL881	A2CD00000024	BACK LIGHT	1	
R735,36	ERJ2GEJ333	M.RESISTOR CH 1/16W 33K	2						
R737	ERJ2GEJ684	M.RESISTOR CH 1/16W 680K	1		Q881	B1DFCL000005	TRANSISTOR	1	
R738	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1						
R739	ERJ2GEJ392	M.RESISTOR CH 1/16W 3.9K	1		R881	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R740	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1						
R741	ERJ2GEJ224	M.RESISTOR CH 1/16W 220K	1		T881	ETJ09K31AM	TRANSFORMER	1	
R742	ERJ2GEJ153	M.RESISTOR CH 1/16W 15K	1						
R743,44	ERJ2RHD153	M.RESISTOR CH 1/16W 15K	2				MISCELLANEOUS		
R746	ERJ6RQF1R8	M.RESISTOR CH 1/10W 1.8K	1						
R747	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1			VWJ1174	EVF INT CABLE	1	
R748	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1						
R750	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1						
R751	ERJ2GEJ682	M.RESISTOR CH 1/16W 6.8K	1						
R752	ERJ2GEJ102	M.RESISTOR CH 1/16W 1K	1						
R753	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1						
R754	ERJ2GEJ473	M.RESISTOR CH 1/16W 47K	1		■ E7	VEP28241B	E.V.F (B) C.B.A.	1	(RTL)
R755	ERJ2GEJ222	M.RESISTOR CH 1/16W 2.2K	1						
R756,57	ERJ2GEJ103	M.RESISTOR CH 1/16W 10K	2						
R758	ERJ2GEJ104	M.RESISTOR CH 1/16W 100K	1		C801	F1L1A335A002	C.CAPACITOR CH 10V 3.3U	1	
R759	ERJ2GEJ183	M.RESISTOR CH 1/16W 18K	1		C802	ECGC1BB150	C.CAPACITOR 12V 15P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E16	VEP000R3A	REMOTE CONTROL C.B.A.	1	(RTL)	IC6103	MN13821-S	IC	1	
					IC6104	TVHC126FT	IC	1	
					IC6105	C0JBAZ001774	IC	1	
					IC6106	C0JBAZ001140	IC	1	
C3001	ECST0JY156	T.CAPACITOR CH6.3V 15U	1						
C3002	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1		L6201	VLQ0319K101	COIL 100UH	1	G1C101K00022
D3001	LN28CALUS	DIODE	1		P6001,02	VJS3791D014	CONNECTOR (FEMALE)	2	
					P6003,04	VJP3172D002	CONNECTOR (MALE)	2	K1KA02B00051
IC3001	VEK8283	REMOTE CONTROL RECEIVER	1	B3RZB0000001	P6005	VJS3319B050	CONNECTOR (FEMALE)	1	
					P6006	VJS3452A008	CONNECTOR (FEMALE)	1	
P3001	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053	P6007	VJS3319B018	CONNECTOR (FEMALE)	1	
					P6008	VJS3320B012	CONNECTOR (FEMALE)	1	
R3001	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1						
		MISCELLANEOUS			Q6201	2SD1819A-R	TRANSISTOR	1	
					Q6202,03	2SB1218A-R	TRANSISTOR	2	
					Q6204-06	2SD1819A-R	TRANSISTOR	3	
	VMX1658	LED HOLDER	1		Q6207	2SB1218A-R	TRANSISTOR	1	
					Q6208,09	2SD1819A-R	TRANSISTOR	2	
					Q6210	XN1501	TRANSISTOR-RESISTOR	1	
					Q6211	2SD1819A-R	TRANSISTOR	1	
■ E17	VEP000R4A	GRIP ZOOM C.B.A.	1	(RTL)	QR6101	UN5111	TRANSISTOR-RESISTOR	1	
					QR6201	UN5213	TRANSISTOR-RESISTOR	1	
P5001	VJP3331B003	CONNECTOR (MALE)	1		R6001-06	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
P5002	VJS2907D003	CONNECTOR (FEMALE)	1		△ R6007	K5H6311A0004	FUSE	1	
					R6008-11	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R5001	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R6012-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R5004	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1		R6020	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
					R6022	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
					R6024-31	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
					R6101	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
					R6102-04	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
					R6105	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
					R6106	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	1	
■ E18	VEP000R5A	AWT INT C.B.A.	1	(RTL)	R6107	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
					R6108-13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	6	
P2501	VJS3320B005	CONNECTOR (FEMALE)	1		R6114-17	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
P2502	VJS3452A008	CONNECTOR (FEMALE)	1		R6118	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
					R6119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
					R6120,21	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
					R6122	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
					R6123	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
					R6124,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
					R6126	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
■ E19	VEP000R6A	BATTERY INT C.B.A.	1	(RTL)	R6127,28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
					R6129-31	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
					R6134,35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
P8001	VJP1232T	CONNECTOR (MALE) 5P	1		R6139-41	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
P8002	VJS3319B014	CONNECTOR (FEMALE)	1		R6143-45	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
					R6151-53	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
					R6154	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
					R6157-59	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
					R6162	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
					R6163	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
■ E20	VEP06E27A	LCD CONTROL C.B.A.	1	(RTL)	R6164-66	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	3	
					R6201	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
					R6202	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
C6101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		R6203	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
C6102,03	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2		R6204	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
C6104	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	1		R6205,06	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	2	
C6105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1		R6207	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
C6106	EEVHB1E4R7	E.CAPACITOR 25V 4.7U	1		R6208,09	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
C6107	EEVHB1C100	E.CAPACITOR 16V 10U	1		R6210,11	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
C6108-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3		R6212	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
C6201	ECST1CX106Z	T.CAPACITOR CH 16V 10U	1		R6213	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
C6202-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3		R6214	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
					R6215	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
D6101	LN043572P	LED	1		R6216	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
					R6217	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
DP6101	EDD063S27A4P	DISPLAY	1		R6218	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
					R6219	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
IC6101	C2BBED000035	IC	1		R6220	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
IC6102	BA6138F	IC	1		R6221,22	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6223	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R6224	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R6225	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R6226-28	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	3	
VR6001,02	D2BCA14A0002	V.RESISTOR 10K	2	
X6101	VSX0792	CRYSTAL OSCILLATOR	1	H0J491400007
		MISCELLANEOUS		
	VJF0948	LCD HOLDER	1	
■ E21	VEP000S1A	EVF INT C.B.A.	1 (RTL)	
P9001,02	VJS3319B018	CONNECTOR (FEMALE)	2	
R9001,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
■ E22	VEP000S2A	PHOTO SHOT SW C.B.A.	1 (RTL)	
P5501	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
SW5501	EVQP1D05M	SWITCH	1	
■ E23	VEP22268A	CAMERA SUB C.B.A.	1 (RTL)	
C101	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C102	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C103	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C104	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C106	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C107	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C108,09	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C111	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C115	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C117	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C119	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C121,22	F1G1H100A448	C.CAPACITOR CH 50V 10P	2	
C124	F1G1H270A469	C.CAPACITOR CH 50V 27P	1	
C125	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	1	
C127,28	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C129	ECST1DY475Z	T.CAPACITOR CH 20V 4.7U	1	
C130	ECST1VX155Z	T.CAPACITOR CH 35V 1.5U	1	
C131	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C132	ECST1DY475Z	T.CAPACITOR CH 20V 4.7U	1	
C133	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C134-36	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C154	ECJ2YB1A105K	C.CAPACITOR CH 10V 1U	1	
C155	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C163	ECJ0EB1C153K	C.CAPACITOR CH 16V 0.015U	1	
C500	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C501	ECJ0EB1A104K	C.CAPACITOR CH 10V 1U	1	
C504	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
C506	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	1	
C507	ECJ0EC1H180J	C.CAPACITOR CH 50V 18P	1	
C508,09	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	2	
C510	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C511	ECJ0EC1H180J	C.CAPACITOR CH 50V 18P	1	
C512	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C513	ECJ0EC1H180J	C.CAPACITOR CH 50V 18P	1	
C514	ECJ0EC1H390J	C.CAPACITOR CH 50V 39P	1	
C515	EEJK0J5106	E.CAPACITOR 6.3V 10M	1	
C516-20	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	5	
C521	ECST0GY226	T.CAPACITOR CH 4V 22U	1	
C522	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C523	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C524	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C525-27	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C528	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C529	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C530-41	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	12	
C542-44	EEJK0J5106	E.CAPACITOR 6.3V 10M	3	
C545	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C546	ECJ1VB1A224K	C.CAPACITOR CH 10V 0.22U	1	
C547	ECJ1ZB1C104K	C.CAPACITOR CH 16V 0.1U	1	
C548,49	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C550-58	ECJ0EB1C103K	C.CAPACITOR CH 16V 0.01U	9	
C559	ECST0JX476Z	T.CAPACITOR CH6.3V 47U	1	
C560	ECST0JY475Z	T.CAPACITOR CH6.3V 4.7U	1	
C561,62	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	2	
C563	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C564	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C565	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C566	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C567	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C568	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C569	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C570	F1K1A225A007	C.CAPACITOR CH 10V 2.2U	1	
C571	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
C572-74	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	3	
C575,76	ECST0JY156	T.CAPACITOR CH6.3V 15U	2	
C577	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
C578	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C579	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	1	
C580	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C581	ECST1AY106	T.CAPACITOR CH 10V 10U	1	
C582,83	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	2	
C585	ECST0JY156	T.CAPACITOR CH6.3V 15U	1	
C586	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	1	
C587	ECJ0EC1H150J	C.CAPACITOR CH 50V 15P	1	
C589	ECJ0EB1A104K	C.CAPACITOR CH 10V 0.1U	1	
D102	1SS355	DIODE	1	
D105	MA728	DIODE	1	
D110	MA728	DIODE	1	
D501	1SS355	DIODE	1	
D502	MA3J741E0L	DIODE	1	
D503,04	1SS355	DIODE	2	
FL501-03	VLF1173	FILTER	3	
FL504-06	VLF1374	FILTER	3	
FP501	K1MN51B00001	CONNECTOR	1	
FP502	K1MN05B000028	CONNECTOR	1	
IC106	MN5236	IC	1	
IC107,08	MB87882PFV	IC	2	C0ZBZ0000194
IC109	TC74VHC04F	IC	1	C0JBAB000163
IC110	TC7SH04FU	IC	1	C0JBAB000175
IC111	TC7SH08FU	IC	1	
IC112	TC7SH04FU	IC	1	C0JBAB000175
IC501	C0ZBZ0000042	IC	1	
IC502,03	AN2018S	IC	2	
IC504	C1AB00000502	IC	1	
IC505	TA75W01FU	IC	1	
IC506	AN2018S	IC	1	
IC507	MB88344PFV	IC	1	C0FBB0000096
IC508	C0DBZGA00009	IC	1	
IC509	NJM2902V	IC	1	
IC510	C3EBFG000004	IC	1	
L101,02	VLQ0807K100	COIL 10UH	2	G1C100K00024
L106-08	VLQ0807K100	COIL 10UH	3	G1C100K00024
L114	G1C330KA0004	COIL 330UH	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1522	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1		P1501	VJP1232T	CONNECTOR (MALE) 5P	1	
C1524	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1		P1701	VJP1232T	CONNECTOR (MALE) 5P	1	
C1525	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1		P1702	K1MN16A00028	CONNECTOR (FEMALE)	1	
C1526	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1						
C1527	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1		Q1501	2SD2216J	TRANSISTOR	1	
C1528,29	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	2		Q1502	B1ADCF000059	TRANSISTOR	1	
C1530	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1		Q1503	8P2M	DIODE	1	B2AAJM000001
C1531	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1		Q1505	2SD221000L	TRANSISTOR	1	
C1532	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009	Q1506	B1ADPC000004	TRANSISTOR	1	
C1533	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1		Q1510	2SD2216J	TRANSISTOR	1	
C1534	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1		Q1511	2SB766A-R	TRANSISTOR	1	
C1535	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1		Q1512	2SD221000L	TRANSISTOR	1	
C1536	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1		Q1513	XP4601	TRANSISTOR-RESISTOR	1	
C1539	VCK0303K225	C.CAPACITOR 2.2U	1		Q1701	B1ABCF000077	TRANSISTOR	1	
C1541	F1K1C225A026	C.CAPACITOR CH 16V 2.2U	1		Q1702	B1HDCFA00002	TRANSISTOR	1	
C1542	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1		Q1703	B1ADCF000059	TRANSISTOR	1	
C1544	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	F1H1H102A009	Q1704	B1HBCFD00001	TRANSISTOR	1	
C1545	EEAFC1C560	E.CAPACITOR 16V 56U	1		Q1705	XP4601	TRANSISTOR-RESISTOR	1	
C1547,48	ECUX1A225KBM	C.CAPACITOR CH 10V 2.2U	2		Q1706	2SD2216J	TRANSISTOR	1	
C1549	ECUX1E334KBM	C.CAPACITOR CH 25V 0.33U	1		Q1707	B1ADCF000059	TRANSISTOR	1	
C1550	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1		Q1708	2SD2216J	TRANSISTOR	1	
C1551	ECUX1E105KBM	C.CAPACITOR CH 25V 1U	1						
C1552	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1		QR1501	UNR9217J0L	TRANSISTOR	1	
C1553	EEAFC1C560	E.CAPACITOR 16V 56U	1		QR1502	UN9213	TRANSISTOR-RESISTOR	1	
C1554	ECUX1E104KBN	C.CAPACITOR CH 25V 0.1U	1		QR1503	UN9112J	TRANSISTOR	1	
C1555,56	EEAFC1C560	E.CAPACITOR 16V 56U	2		QR1504	UNR9113J0L	TRANSISTOR	1	
C1557	ECUX1E334KBM	C.CAPACITOR CH 25V 0.33U	1		QR1505	UN9213	TRANSISTOR-RESISTOR	1	
C1567	EEVHB1C100	E.CAPACITOR 16V 10U	1		QR1506	UN9112J	TRANSISTOR	1	
C1568	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1		QR1701	UNR9113J0L	TRANSISTOR	1	
C1701,02	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	2		QR1702,03	UN2130X	TRANSISTOR-RESISTOR	2	
C1704	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1		QR1704	UN9112J	TRANSISTOR	1	
C1705	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1						
C1706	EEVHB1C100	E.CAPACITOR 16V 10U	1		R1501	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
C1707	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1		R1502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
C1708	EEVHB1C100	E.CAPACITOR 16V 10U	1		R1503	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
C1709	EEVHB0J470	E.CAPACITOR 6.3V 47U	1		R1504,05	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
C1710-12	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	3		R1507	ERJ12YOR00	M.RESISTOR CH 1/2W 0	1	
					R1509	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
					R1510	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
D1501	MA8056-MH	DIODE	1		△ R1511	K5H312300003	FUSE	1	
D1502	DE5SC4M-4061	DIODE	1		R1512	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
D1503-06	MA132WK	DIODE	4		R1513	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
D1507	MA111	DIODE	1		R1514	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
D1508	B0JCMD000004	DIODE	1		R1515	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
D1510	MA115	DIODE	1		R1516	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
D1511	MA111	DIODE	1		R1517	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
D1512	MAZ82200ML	DIODE	1		R1519	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
D1513	MA147	DIODE	1		R1520	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
D1514	MA720	DIODE	1		R1521	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
D1516	MA720	DIODE	1		R1522	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
D1701,02	MA8120-M	DIODE	2		R1523	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
D1703-05	MA132WK	DIODE	3		△ R1524	K5H1223A0001	FUSE	1	
D1707	MA8062-MH	DIODE	1		R1525	ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	1	
D1708	MA1070400L	DIODE	1		R1527	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
D1710,11	MA132WK	DIODE	2		R1528	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	1	
					R1531	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
IC1501	BA9706K	IC	1	C0DBAZZ00012	R1533	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
IC1502	BA9743AFV	IC	1		R1535	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
IC1503	TA75W393FU	IC	1		R1536,37	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	2	
IC1702	TC7500FU	IC	1		R1538	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
IC1703	AN77L03M	IC	1		R1539	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
					R1540	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
L1501	VLP0353	COIL	1		R1541	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
L1503,04	VLP0353	COIL	2		R1542	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
L1505	G1C4R7M00009	COIL 4.7UH	1		R1543	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
L1506	VLQ0319K100	COIL 10UH	1	G1C100K00023	R1545,46	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
L1507	G1A220F00006	COIL 22UH	1		R1547	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
L1508	EEVHB0J470	E.CAPACITOR 6.3V 47U	1		R1550	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
L1509	VLQ0319K100	COIL 10UH	1	G1C100K00023	R1551	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
L1510	VLQ0319K101	COIL 100UH	1	G1C101K00022	R1552	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
L1511	G1A331C00002	COIL 330UH	1		R1553,54	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
L1512	G1A681C00001	COIL 680UH	1		R1555	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
L1513	VLQ0319K100	COIL 10UH	1	G1C100K00023	R1557	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
L1701-03	VLQ0319K100	COIL 10UH	3	G1C100K00023	R1558	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
L1705-07	VLQ0319K100	COIL 10UH	3	G1C100K00023	R1559	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1560	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1561	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R1562	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R1563	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R1564	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R1565	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1566	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R1567	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R1568	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R1569	ERJ3RED244	M.RESISTOR CH 1/16W 240K	1	
R1570	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R1571	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1572	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1573	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1574	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R1575,76	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1577	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1578	ERJ3RED270	M.RESISTOR CH 1/16W 27	1	
R1579	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1580	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1581	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R1582	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R1584	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	1	
R1585	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R1586	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1587	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1588	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1589	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R1590	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R1591	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R1592	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1593,94	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	2	
R1595	ERJ6GEYG392	M.RESISTOR CH 1/10W 3.9K	1	
R1596	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1597	ERJ12Y0R00	M.RESISTOR CH 1/2W 0	1	
R1601,02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R1604	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R1607-10	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	4	
R1702	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1703	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R1704	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R1706	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R1707	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R1708	ERJ3RED514	M.RESISTOR CH 1/16W 510K	1	
R1709	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1710	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R1711	ERJ3RED274	M.RESISTOR CH 1/16W 240K	1	
R1712	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R1713	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R1714	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1715	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R1716	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1717,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R1719	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R1720,21	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1722	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1723	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R1725-29	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	5	
T1501	G5DYA000025	TRANSFORMER	1	
TG1701	EYF6CU	TEST POINT	1	
■ E25	VEP00077A	ZOOM C.B.A.	1 (RTL)	
P4001	VJP3950A007D	CONNECTOR (MALE)	1	
SW4001	K0H1BA000399	SWITCH	1	
SW4002,03	K0H1BA000105	SWITCH	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E26	VEP000T8A	EVR EXT C.B.A.	1 (RTL)	
P21,22	K1KA60A00065	CONNECTOR	2	
P23	VJS3452A008	CONNECTOR (FEMALE)	1	
		MISCELLANEOUS		
	VMP6854	EVR HOLDER ANGLE	1	
	XYN2+J5	SCREW	2	
■ E27	VEP000T9A	SW C.B.A.	1 (RTL)	
P601	VJS3452A008	CONNECTOR (FEMALE)	1	
R601,02	ERJ3RBD471	M.RESISTOR CH 1/16W 470	2	
R603,04	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	
R605,06	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R607,08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
SW601,02	VSS0279	SWITCH	2	K0D112A00094
SW603	VSS0220	SWITCH	1	K0D123A00062
SW604	VSP1031	SWITCH	1	K0H1BA000328
■ E28	VEP04777A	MIC AMP C.B.A.	1 (RTL)	
C4701-04	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	4	
C4705,06	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C4707,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4709-12	EEVHB1H100	E.CAPACITOR 50V 10U	4	
C4713,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4719-22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4723-27	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	5	
C4728,29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4730	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4731,32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4733	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C4734	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4735	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C4736-40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4741-44	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C4745,46	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C4747-50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4751-54	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C4807,08	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
D4701-04	MA3J14300L	DIODE	4	
D4705,06	MA716	DIODE	2	
IC4701,02	TA75W558FU	IC	2	C0ABBA000042
IC4705-07	NJM2122M	IC	3	
IC4709	NJM2122M	IC	1	
IC4710	MC14053BDT	IC	1	
IC4711	NJM79L05UA	IC	1	C0CBBD000001
IC4712,13	NJM78L05UA	IC	2	C0CBADC00010
IC4714	NJM79L05UA	IC	1	C0CBBD000001
J4801,02	VJS3551A	AUDIO IN CONNECTOR	2	K1AB103B0012
L4701-04	VLQ0163J100	COIL 10UH	4	
L4801	VLF1315A102	FILTER	1	J0JHC0000015

[illegible]